

Tees Viaduct S Abut -S5 STR_11060 /A19//131.00//1

'WARNING – Assume that Asbestos is present. Be familiar with the relevant National Highways Help Guide and follow your own safe working procedures.'



Structures Principal Inspection Report

02/05/2022

Completed

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1. Inspection Summary

Structure Name	Tees Viaduct S Abut -S5	Maintaining Agent	Autolink (Dbfo)/DBFO - A19
Structure Key	STR_11060	Geographical Area	Middlesbrough
Structure Number	/A19//131.00//1	Custodian/Region	DBFO / Yorkshire & North-East
OS Grid	447470 / 518900	Structure Type	Bridge And Large Culvert
General Description	<p>The Tees Viaduct South Abutment to Pier S5 including the South Approach forms the southern section of the Tees Viaduct and carries the A19 across the A66, the South to East Stockton Road I/C Slip Road and open land as far as Pier S5.</p> <p>The Tees Viaduct was designed by Dobbie, Sandford Fawcett & Partners and was commissioned during November 1975.</p> <p>This section of the Tees Viaduct is comprised of eleven simply supported deck spans, each measuring approximately 22m, between the south abutment and pier S5 having a total length of 238.7m.</p> <p>The decks are constructed of universal beams composite with in-situ reinforced concrete slabs and rest on elastomeric bearings positioned on the south abutment and 11 piers numbered S15 to S5 inclusive, the deck slabs are tied together in pairs at piers S15, S13, S11, S9 and S7 and fixed to these piers.</p> <p>The south abutment and piers are all constructed using cast in-situ reinforced concrete and are founded on 610mm diameter reinforced concrete bored piles.</p> <p>The carriageways south of the south abutment are laid on compacted sub base on constructed earthworks.</p>		

Structure Articulation Simply supported.

Inspection Date 02/05/2022

Inspection Weather Date	Weather	Day Or Night
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Overall Condition Fair

Inspection Method Upper reaches were inspected using MEWP's and bases of pier columns and south abutment (i.e. below 2m) were inspected on foot. Spans S5-S14: Self-propelled MEWP's. Spans S14-S16 (South Abutment): Van mounted MEWP's in single lane closures on A66.

Equipment Used Light hand tools including hammer and tape measure.

Inspected By [REDACTED], [REDACTED], [REDACTED], [REDACTED], [REDACTED], [REDACTED], [REDACTED], [REDACTED]

Authorised By [REDACTED] **Date Authorised** 29/03/2024

Summary

Tees Viaduct, South abutment to S5, is in fair condition, overall, showing signs of deterioration since 2017.

Foundations: There are no signs of movement or settlement.

South abutment (S16): Extensively repaired prior to the 2017 Principal Inspection and remains in good condition apart from areas of delamination and minor spalling within the ballast wall. The curtain walls exhibit rust staining, however, there is no delamination. Debris, silt deposits and pigeon droppings were observed on the bearing shelf.

Wing walls: Both wing walls are in good condition except for minor defects including non-structural cracks, crazing within repairs, and an unfilled repair cut-out adjacent to other repairs within the southwest wing wall. Some cracks are accompanied by leachate.

Piers: Good condition apart from non-structural cracks, areas of delamination and spalling exposing reinforcement within the bearing shelf, crosshead, and columns. Most of the areas of delamination and spalling are the result of expansion and/or longitudinal joint leakage, however, an area of spalling within the base of the east column for S9 is believed to be the result of fire damage. Diagonal cracks within crossheads at column interfaces indicate shear cracking, cracks located above columns are indicative of hogging and vertical cracks about mid-width of the crossheads indicate flexure, however, widths of cracks have not deteriorated since 2017 and are not considered significant at present. Debris, silt deposits and pigeon droppings were observed on the bearing shelves, especially on top of S15 where pigeons are roosting adjacent to the A66 (and were in 2017). Damp areas are present as result of joint leakage, and inoffensive graffiti is present on columns.

Bearings: Most bearings are functioning as intended; however, some of the fixings for the east set of guided bearings above S14 are either not engaged or loose and gaps are present at the deck interface. All bearing plates and fixings are affected by a varying degree of corrosion, the worse affected tend to be below the longitudinal joint or elevations.

Main beams: All main beams are affected by corrosion; the worst areas are present on the ends of the beams at the bearing and diaphragm interfaces and where through deck drainage pipes discharge out of the deck and/or leak on the steelwork. Most of the temporary work's fixings exhibit corrosion and one set of fixings through beam 4 of span S11-S10 is loose. Beams 4 and 5 for spans S16-S15 & S15-S14 are affected by pigeon droppings (steel mesh panels have been installed between these beams to 'catch' falling concrete and pigeons are roosting in these areas). Beam 2 for span S11-S10 exhibits minor deformation, this deformation is not above the carriageway and could have arisen during fabrication or installation.

Diaphragms: Fair condition with areas of delamination and spalling, and historical cracks are commonplace. Although most areas of delamination and spalling are located at joints, some are isolated away from joints. Cracks are mostly diagonal and vertical, and occasionally horizontal, and show no significant deterioration since 2017. An unidentifiable steel bar is protruding out of the diaphragm above S14, between beams 4 and 5. Damp areas are present, mainly as result of joint leakage, although an area of leakage on the diaphragm above S13 is emanating from the interface with beam 4.

RC deck slabs: Fair condition, with areas of delamination and spalling adjacent to the longitudinal joint, through deck drainage pipes and drainage fixings, locations that are susceptible to moisture ingress. Non-structural cracks are present within the deck soffit and parapet beams. Some cracks are accompanied by leachate.

Drainage: Generally functioning as intended, except for a couple of leaking guttering connections. Most of the steel drainage components and fixings exhibit corrosion, especially the hangers, with section loss observed to the worst affected and parts of the steel drainage pipes. Parts of the guttering fixed to the south abutment (S16), and piers S15 and S14 are blocked with pigeon droppings, pigeon carcasses and silt. Most of the through deck drainage pipes are dry, and some have stalactite formation and are likely to be partially blocked. Some of the drainage system components and fixings are displaced, loose, or missing. Gullies in the carriageway were found blocked above spans S10-S11, S12-S13, S13-S14, and S15-S16, however, these have not been recorded as all gullies were being cleaned at the time of inspection.

Waterproofing: Deck soffits are dry, with evidence of historical leakage only, suggesting the waterproofing is functioning correctly. The fall in the deck is likely to helping with removal of surface water.

Surfacing: Fair condition, with the carriageway above all spans exhibiting weathering and tracking, and misalignment of the southbound carriageway immediately north of S7 joint. Transverse cracks are present within the carriageway surfacing, located above buried joints and adjacent to BEJ's. The verges exhibit regular transverse cracking (probably due to a lack of movement joints), and break-up of the surfacing around joints.

BEJ expansion joints and saw-cut joints: Most are leaking, as indicated by damp areas on the elevations and bearing shelves beneath. All BEJ joints have corrosion on their rails. There is debonding between the BEJ joint carrier rails and bitumen/nosing, and detachment of rubber from carrier rails (which may have been caused by silt in the elastomeric inserts as well as constant loading from heavy vehicles). Most bitumen seals have cracked/debonded and the polysulphide sealant between parapet beams is cracked/debonded, torn or missing.

Longitudinal Joint: Continues to leak and the cover in the central reservation has deteriorated since 2017. The splices 4m north of S16, 2m north of S14, 10m south of S13, and 3m north of S13 have failed/debonded leaving the joint uncovered. There are holes and splits in the cover located 9m south of pier S14, above S12-S13, and 4m south of pier S11. A repair located 5m south of pier S11 has debonded.

Parapets: There are extensive areas of paint loss and significant corrosion and section loss from both parapets; parts of the parapet have corroded through and are no longer fit for purpose. Other defects include slight deformation (up to 40mm) of the S12-S11 east parapet bottom rail, between the northernmost posts; the S11-S10 west parapet is missing a bolt that connects the mesh panel rail to the first post north of the S10 joint; and the S6-S5 west parapet is missing a cap missing from the third post. The previously recorded area of impact damage to the S6-S5 damage was not observed during this inspection, and it is assumed the affected area has been repaired and parapet repainted, locally. Replacement of the parapets is recommended, however, with the posts being socketed into the parapet beam, this may be difficult.

Ultra Sonic thickness tests have been carried out and are being assessed before renewal works are planned.

Safety fencing: Areas of corrosion are present, and these are localised to the ends and posts. The terminations are not connected to the parapets.

Signage: Corrosion is present on the sign post base plates.

Lighting: The lighting units fixed to the south abutment (S16) and pier S14 have been replaced since the previous inspection and were functioning at the time of inspection.

Parts of Structure Not Inspected

Foundations and waterproofing – buried and not exposed during this inspection.

2. Associated Images and Documents

3. Observations/Defects Confirmed at this Inspection

Defect Code	DEF_3629180-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629189-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629184-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629186-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629182-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629179-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629188-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S7-S6: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623019-0004	
Component	Bearing	North Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623217-0002	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	<p>S6-S5: Delamination & spalling, 700mm x 300mm, within east parapet beam at S5 joint. Spall to soffit B5-B4 370 x 270 mm.</p> <p>Concrete Deck, soffit: Delamination, 450mm x 240mm, beams 7-8.</p> <p>Concrete Deck, soffit: Delamination and minor spalling around a drainage outlet, 300mm x 230mm, beams 7-8.</p>	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623220-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S6-S5: Minor spall, with exposed reinforcement, within east parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623038-0005		
Component	Expansion Joint	S6 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S6 Expansion Joint: Extensive corrosion on all Maurer Joint rails		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3623033-0004		
Component	Bearing	South Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S6: Corrosion on all bearing plates		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629222-0003		
Component	Diaphragm	South Diaphragm	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8: Damp area on diaphragm between beams 3 & 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629170-0005		
Component	Longitudinal Beam (detail)	Longitudinal Beam 7	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S8-S7: Corrosion on all beams		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629168-0005		
Component	Longitudinal Beam (detail)	Longitudinal Beam 6	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S8-S7: Corrosion on all beams		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629172-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8-S7: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629175-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8-S7: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629166-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8-S7: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623229-0002	
Component	Bearing	South Bearing
Defect Type	Debo - Debonding Defects in components	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S5: Debonding of bearings from beams. Spall, area 1070 x 470 mm with exposed reinforcement beneath. Reinforcement exposed during this inspection, B8. 2150 x 1400mm B4-B5 Delaminated concrete and exposed rebar	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629201-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629203-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629173-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8-S7: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629176-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S8-S7: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_6628441-0001	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Deck: Areas of spalling and delamination. Soffit 4-5: Spall with delaminating concrete around drain pipe. approx. L:800mm, W:800mm, D:30mm. Soffit 4-5: Spall + delamination □:300mm. Delaminating + concrete spall to the east edge beam, approx. L:560mm, W:400mm, D:10mm	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629220-0003		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8-S7: Spalls, with exposed reinforcement, within west parapet beam (0.1m2). West elevation: Spall + delamination + exposed corrosion (approx. L:200mm, W:200mm, D:30mm). West elevation: Spall with exposed reinforcement up to L:130mm, W:90mm, D:10mm. Hollow/delaminating concrete around the drain pipe between beams 1-2, approx. L:650mm, W:600mm). Spall adjacent to drainpipe when it was tapped, approx. L:570mm, W:260mm, D:40mm.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629221-0003		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8-S7: Spall,600mm x 150mm, within east parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629163-0005		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8-S7: Areas of spalling & delamination, between beams 3 & 4 and 4 & 5 (4m2). Hollow/delaminating adjacent to beam 3 Soffit 3-4: Hollow + delaminating + spalling concrete, approx. L:500mm, W:400mm Soffit 3-4: Spall + exposed reinforcement when hammer tapped, approx. L:950mm, W:900mm, D:50mm Soffit 3-4: Spall + exposed reinforcement when hammer tapped, approx. L:900mm, W:700mm, D:50mm Soffit 3-4: Spalled + delaminating approx. L:300mm, W:300mm, D:20mm Soffit 3-4: Spall + exposed reinforcement + delamination, approx. L: 1.2m, W:600mm, D:40mm Soffit 3-4: Spall + delamination + exposed corrosion (approx. L:650mm, W:600mm, D:50mm)		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623203-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8-S7: Delamination, 450 x 300, within east parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623206-0002		
Component	Slab Or Arch	Slab	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8-S7: Damp area on deck soffit around through deck drainage pipe, between beams 3 & 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623041-0005		
Component	Expansion Joint	S8 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S8 Expansion Joint: Extensive corrosion on all Maurer Joint rails		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3623022-0004		
Component	Bearing	South Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S8: Corrosion on all bearing plates		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623042-0005		
Component	Expansion Joint	S16 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16 Expansion Joint: Extensive corrosion on all Maurer Joint rails		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3629206-0003		
Component	Expansion Joint	S16 Joint	
Defect Type	WR - Running water Leaching/Staining		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16 Expansion joint is leaking		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629191-0003		
Component	Foundation	Foundation	
Defect Type	LoFI - Lack of fill over or adjacent to the structure General defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	X1 - Adjacent element will not be affected		
Priority	Low		
Comments	S6: West leg pile cap reinforcing bars protruding above ground level (hazard to personnel).		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623032-0004		
Component	Bearing	North Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S6: Corrosion on all bearing plates		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623211-0002	
Component	Bearing	North Bearing
Defect Type	Debo - Debonding Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S6: Debonding of bearing 7 plate	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623030-0004	
Component	Slab Or Arch	Slab
Defect Type	WS - Water stain Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S7-S6: Damp area, accompanied by rust staining and delamination, at through deck drainage pipe	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623208-0002	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S7-S6: Spall, 150mm x 75mm, within west parapet beam at S7 joint	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623209-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S7-S6: Delamination, 300mm x 200mm, accompanied by rust staining within deck soffit around through deck drainage pipe		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623214-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	<p>S7-S6: Spalling, 150mm x 75mm, within east parapet beam.</p> <p>East parapet edge beam: Spall with exposed rebar</p> <p>East parapet edge beam: Spall + delamination, approx. L:300mm, W:100mm, D:10mm</p> <p>East parapet edge beam: Hollow sounding concrete, approx., L:850mm, W:400mm</p> <p>Spall to east elevation, approx.. L:150mm, W:60mm</p> <p>Soffit 1-2: Spall around drain pipe, approx. □ = 150mm</p> <p>Soffit 3-4: Spall + delamination, approx. L:200mm, W:100mm</p> <p>Soffit 3-4: area of delamination, approx. □ = 2m</p> <p>Soffit 3-4: Concrete delamination, approx. L:100mm, W:150mm</p>		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623215-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S7-S6: Delamination, 700mm x 150mm, within east parapet beam		
Cause			Certainty
Comment on Cause			

Defect Code	DEF_3623024-0004		
Component	Bearing	South Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S7: Corrosion on all bearing plates		
Cause			Certainty
Comment on Cause			

Defect Code	DEF_3623026-0004		
Component	Bearing	North Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S7: Corrosion on all bearing plates		
Cause			Certainty
Comment on Cause			

Defect Code	DEF_3623233-0002		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	FrCo - Broken or fractured Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D1 - Defect is definitely not causing damage to element or structure		
Priority	High		
Comments	S6-S5 East parapet: Impact damage and missing mesh (incident 61296, 09/03/17). PBI 2023 update: Defect not recorded during this inspection, and it is assumed damage has been repaired and parapet repainted, locally. Severity has been reduced to 1		
Cause	Accident Damage	Certainty	High
Comment on Cause	Accident damage (incident 61296, 09/03/17)		

Defect Code	DEF_3623231-0002		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	MissCo - Missing Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S6-S5 West parapet: Cap missing from west parapet, third post from S6. PBI 2023 update: Historical defect remains and it appears that the top of the post has been removed by hot works, hence 'jagged' edges. A similar defect is present on the east parapet above the adjacent slip road structure and may be associated		
Cause	Maintenance Issue	Certainty	Medium
Comment on Cause	Top of, or component on top of post may have been removed as part of maintenance works. Recommended covering tops of posts to keep out the elements and prevent deterioration		

Defect Code	DEF_3623221-0002		
Component	Diaphragm	South Diaphragm	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S6: Delamination, 1000mm x 150mm, within diaphragm between beams 3 & 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623228-0002	
Component	Diaphragm	South Diaphragm
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S6: Spalling, 250 x 100, within west diaphragm	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629204-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629198-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629202-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629197-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629194-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S6-S5: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629207-0003	
Component	Superstructure Drainage	Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Leaking drainage pipe, adjacent to S15, between beams 5 & 6	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629030-0005	
Component	Superstructure Drainage	Surface Drainage
Defect Type	RCo - Rusty/Corroded Defects in components	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on some steel drainage components (hangers and pipe fittings)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629054-0006	
Component	Superstructure Drainage	Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on drainage hangers located below through deck drainage pipes	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629052-0006	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on drainage hangers located below through deck drainage pipes	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3622990-0003	
Component	Diaphragm	South Diaphragm
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16: Spalling within soffit of diaphragm between curtain wall and beam 1	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629078-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629076-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629073-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629067-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629065-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629070-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623153-0002	
Component	Slab Or Arch	Slab
Defect Type	Disp - Displaced or misaligned General defects	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S13-S14: Misalignment of west elevation of deck at S14	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623165-0002		
Component	Slab Or Arch	Slab	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S13: Leakage through saw-cut joint within west elevation (east elevation is sealed)		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3622997-0005		
Component	Slab Or Arch	Slab	
Defect Type	RCCr - Reinforcement corrosion crack Cracks in concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S14-S13: Damp areas emanating from longitudinal joint have led to delamination and spalling (1.2m2). Cantilever, west: Vertical crack with salt staining, 0.3mm wide and full width. Cantilever, west: Vertical crack, 0.4mm wide and full width.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623037-0005		
Component	Expansion Joint	S14 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S14 Expansion Joint: Extensive corrosion on all Maurer Joint rails		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3629212-0003	
Component	Expansion Joint	S14 Joint
Defect Type	WR - Running water Leaching/Staining	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14: Expansion joint is leaking	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623161-0002	
Component	Deck	Deck
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14-S13: Area of delamination, 350mm x 300mm, within deck soffit next to beam 4, 5m from S13	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623152-0002	
Component	Bearing	South Bearing
Defect Type	MissCo - Missing Defects in components	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future	
Priority	High	
Comments	S14: East guided bearings' fixings are loose and there are gaps, up to 7mm wide, between both bearings and the deck	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3622992-0004	
Component	Bearing	South Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623147-0002	
Component	Bearing	South Bearing
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14: Corrosion on fixings for both guided bearings	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629100-0006	
Component	Superstructure Drainage	Surface Drainage
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on steelwork at locations of through deck drainage pipes	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629097-0006	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on steelwork at locations of through deck drainage pipes. S12-S13: Beams 1-2: Areas of corrosion and section loss to drainage pipes. Beams 5-6: Areas of corrosion and section loss to drainage pipes.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629080-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 9
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629081-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 8
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629083-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629088-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629089-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629063-0006		
Component	Slab Or Arch	Slab	
Defect Type	RCCr - Reinforcement corrosion crack Cracks in concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15-S14: Damp areas emanating from longitudinal joint have led to delamination and spalling. Steel mesh panels with debris netting installed as a precautionary temporary measure		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623139-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15-S14: Delamination, 450 x 70, within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623142-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15-S14: Spall, 180mm x 130mm, with exposed, pitted, reinforcement within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629235-0005	
Component	Bearing	South Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_6628440-0001	
Component	COL - Column	West Column
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Concrete Piers: Areas of spalling and delamination.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629210-0003	
Component	Crosshead	Crosshead
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Small spall, 40mm x 40mm, with exposed reinforcement, within north face of crosshead, next to east leg	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629055-0005	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Area of delamination, 650mm x 350mm, within south face of crosshead below bearing 5 (adjacent to an existing repair area)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629057-0005	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Area of delamination, 350mm x 320mm, within south face of crosshead between bearings 4 & 5 (adjacent to an existing repair area)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623117-0002	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 500mm x 400mm, within bearing shelf between bearings 2 & 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623120-0002	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 650mm x 450mm, within bearing shelf between bearings 6 & 7	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623123-0002	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 500mm x 400mm, within east face	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623132-0002	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 450mm x 300mm, within north face between bearings 4 & 5	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623122-0002	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 1850mm x 1000mm, within bearing shelf between bearings 7 & 8	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629230-0003	
Component	Crosshead	Crosshead
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination, 1600mm x 500mm, within north face of crosshead below bearing 4	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623137-0002	
Component	Crosshead	Crosshead
Defect Type	WR - Running water Leaching/Staining	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Damp areas on bearing shelf and leakage through saw-cut and seal joints within both elevations	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623126-0002	
Component	BRP - Bearing plinth or bearing shelf	Bearing Plinth
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination within top face of north bearing plinth 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623129-0002	
Component	BRP - Bearing plinth or bearing shelf	Bearing Plinth
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination within north bearing plinth 4 (0.3m2)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623130-0002	
Component	BRP - Bearing plinth or bearing shelf	Bearing Plinth
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Delamination within north bearing plinth 5 (0.1m2)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623180-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination, 700 x 230, within soffit between beams 2 & 3		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623182-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination, 250mm x 220mm, next to repair, between beams 3 & 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623188-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination, 700mm x 250mm, within west parapet beam repair. Spall, delamination, 780mm x 160mm, over eastbound carriageway/chevrons. Spalls 250mm x 60mm and 650mm x 90mm, crack, 0.3mm, over north verge.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623189-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination, 380mm x 330mm, within east parapet beam. Spall, exposed rebar, 300mm x 200mm, 2m from pier S10. Delamination, 700mm x 200mm, crack, 4mm max, 5m from pier S10. Spall, delamination, 1300mm x 300mm, over eastbound slip/south verge. Spall, in repair area after removal of loose concrete 1600mm x 300mm, e/b slip/south verge.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623192-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination and spalling, 1500mm x 800mm, within east parapet beam. Deck, beam 5-6: Spall, exposed rebar, 300mm x 300mm, over eastbound slip/south verge. Deck, beam 4-5: Spall, exposed rebar, 450mm x 400mm, 2m from pier S10. Deck, beams 1-2: Delamination, 660mm x 580mm, over easbound slip/south verge. Deck, beams 1-2: Delamination, 660mm x 580mm, over easbound slip/south verge.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629120-0005		
Component	Slab Or Arch	Slab	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Delamination, 330mm x 300mm, between beams 5 & 6.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629117-0005		
Component	Slab Or Arch	Slab	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11-S10: Area of delamination and spalling, 1900mm x 1100mm, around through deck drainage pipes, adjacent to S11, between beams 3 and 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623175-0002		
Component	Bearing	South Bearing	
Defect Type	Debo - Debonding Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S11: Debonding of elastomeric bearings from bearing shelf at west end		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623005-0004		
Component	Bearing	South Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S11: Corrosion on all bearing plates		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623035-0005		
Component	Expansion Joint	S12 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S12 Expansion Joint: Extensive corrosion on all Maurer Joint rails		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3623173-0002		
Component	Expansion Joint	S12 Joint	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S12: Damp area on bearing shelf at east end (joint leakage). S12: West Face: Missing sealant at expansion joint.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623002-0004		
Component	Bearing	South Bearing	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SD - Defect present in 20% to not more than 50% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S12: Corrosion on all bearing plates and fixings (guided bearings). Section loss from guide bearing between bearing 3-4, >50%.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629093-0006		
Component	Superstructure Drainage	Sub Surface Drainage	
Defect Type	RSt - Rust stain/streak/spot Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S14-S13: Corrosion on steelwork at locations of through deck drainage pipes		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623056-0005		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RS - Corroded/Rusting Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	Medium		
Comments	S13-S12 East parapet: Significant corrosion, lamination, and loss of section from west parapet, especially at ends of span and at welds		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_3623167-0002		
Component	Diaphragm	South Diaphragm	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	Delamination and spalling, exposing corroded reinforcement (900mm x 400mm) within south face of diaphragm, adjacent to beam 4 Delamination and spalling with exposed, corroded reinforcement (650mm x 300mm) within north face of diaphragm above S13, adjacent to beam 5 (due to low cover)		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629228-0003	
Component	Diaphragm	North Diaphragm
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Medium	
Comments	S13: Leakage through interface of beam 4 with diaphragm	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623155-0002	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14-S13: Delamination, 360 x 260, within east diaphragm	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623156-0002	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14-S13: Delamination within diaphragm, between beams 5 & 6 (0.2m2)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623159-0002	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14: Delamination, 300mm x 250mm, within diaphragm between beams 8 & 9	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623162-0002	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S13: Delamination, 1100mm x 200mm, within diaphragm next to beam 4	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3622995-0004	
Component	Diaphragm	South Diaphragm
Defect Type	WS - Water stain Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14: Steel bar of unknown origin protruding from diaphragm between beams 4 & 5	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629071-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 9
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629075-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 8
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629068-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629124-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629016-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629038-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629022-0006		
Component	Longitudinal Beam (detail)	Longitudinal Beam 1	
Defect Type	RS - Corroded/Rusting Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629051-0006		
Component	Longitudinal Beam (detail)	Longitudinal Beam 1	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3621658-0003		
Component	Carriageway Surfacing	Carriageway Surfacing	
Defect Type	Deg - Degraded Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15 Carriageway surfacing: Weathering and tracking (typical)		
Cause	Age Expired	Certainty	High
Comment on Cause			

Defect Code	DEF_3629245-0004	
Component	Substructure Drainage	Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16: Damp areas, accompanied by silt, fragments of concrete and bird droppings, on bearing shelf at both ends and between bearings 2 & 3 and 8 & 9	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623091-0002	
Component	Abutment Wall	Abutment Wall
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16: Delamination and some small spalls within ballast wall. Multiple areas of delamination (up to 2300mm x 360mm) within ballast wall	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629242-0005	
Component	Abutment Wall	Abutment Wall
Defect Type	WS - Water stain Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16: Damp area at east end, above guttering, emanating from ballast wall (joint leakage)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629240-0005	
Component	Bearing	Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S16: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623103-0002	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Spall, 300mm x 300mm, with exposed reinforcement, within east parapet beam	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623104-0002	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Areas of delamination & spalling within east parapet beam sign post plinth (0.5m2)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623109-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Spall, 330mm x 270mm, with exposed, pitted, reinforcement, within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623112-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Spall, 150mm x 150mm, with exposed reinforcement, within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623113-0002		
Component	Slab Or Arch	Slab	
Defect Type	CJCr - Construction joint crack Cracks in concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Vertical crack, up to 4mm wide, and spall, 80mm x 50mm, within west parapet beam at joint above S15		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623115-0002		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Spall, 250mm x 70mm, within east parapet beam, at joint above S15		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629237-0006		
Component	Slab Or Arch	Slab	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Damp areas emanating from longitudinal joint have led to delamination and spalling. Steel mesh panels with debris netting installed as a precautionary temporary measure		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623106-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S16-S15: Delamination, 550mm x 450mm, around drainage fixing between beams 1 & 2		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629217-0003		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S9-S8: Delamination, 1300mm x 900mm, around through deck drainage pipe between beams 3 & 4		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629227-0003		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	<p>S9-S8: Areas of delamination within deck soffit between beams 3 & 4 (0.5m2). Cantilever, west: Spall exposing corroded reinforcement, 230mm x 260mm. Cantilever, east: Spall, 680mm x 260mm. Cantilever, east: Delamination, 370mm x 250mm. Cantilever, east: Delamination, 340mm x 340mm.</p> <p>Concrete Deck, soffit: Delamination to a concrete repair, 620mm x 500mm, beams 1-2. Concrete Deck, soffit: Delamination and spalling around drainage pipe bracket, 530mm x 630mm, beams 1-2. Concrete Deck, soffit: Delamination and spalling around a deck drainage outlet, 900mm x 1800mm, beams 3-4. Concrete Deck, soffit: Delamination within an area of salt staining, 220mm x 400mm, beams 3-4. Concrete Deck, soffit: Delamination and spalling around a deck drainage outlet, 450mm x 390mm, beams 3-4. Concrete Deck, soffit: Delamination and spalling around a deck drainage outlet, 560mm x 590mm, beams 3-4. Concrete Deck, soffit: Delamination and spalling around a deck drainage outlet, 520mm x 720mm, beams 3-4.</p>		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623017-0004	
Component	Bearing	South Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_6628424-0001	
Component	COL - Column	East Column
Defect Type	FD - Fire damage Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D1 - Defect is definitely not causing damage to element or structure	
Priority	Low	
Comments	Pier S9: Spalling, fire damage, east leg at base.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623015-0004	
Component	Bearing	North Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	Varying levels of corrosion to the bearing plates, bearing 6 most affected.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629135-0005	
Component	Superstructure Drainage	Surface Drainage
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S10-S9: Areas of delamination and spalling associated with through deck drainage pipes (4m2)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629147-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10-S9: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629149-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10-S9: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629146-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10-S9: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629141-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10-S9: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629143-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10-S9: Corrosion on all beams	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629139-0005		
Component	Slab Or Arch	Slab	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10-S9: Areas of delamination and spalling associated with through deck drainage pipes (4m2). S9-S10: Beams 1-2: Typical cracking throughout deck, approx. 0.1mm - 0.4mm. S9-S10: Beams 3-4: Minor spalled concrete, 100mm x 150mm with cracking at 0.8mm x 600mm. S9-S10: Beams 3-4: Several areas of cracked concrete on deck above top flange, up to 0.4mm wide. S9-S10: Beams 4-5: Several areas of cracked concrete on deck above top flange, up to 1.0mm x 200mm. S9-S10: Beams 5-6: 2No. Areas of cracked concrete, up to 1.0mm x 500mm.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623193-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	<p>S10-S9: Delamination, 180mm x 180mm, at S10 joint.</p> <p>Deck, west cantilever: Delamination/hollow sounding, 150mm x 150mm, over pier S10.</p> <p>S9-S10: Beams 1-2: Area of delaminated and spalled concrete with exposed and corroded reinforcement, measuring at 880mm x 700mm x 80mm.</p> <p>S9-S10: Beams 1-2: Area of delaminated concrete near drainage supoort, 450mm x 450mm.</p> <p>S9-S10: Beams 2-3: Spalled concrete near top flange of beam, approx. 400mm x 200mm x 90mm.</p> <p>S9-S10: Beams 2-3: Spalled concrete, 200mm x 200mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 1100mm x 800mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 660mm x 900mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 400mm x 600mm.</p> <p>S9-S10: Beams 3-4: Minor spalled concrete, 170mm x 90mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 600mm x 700mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 550mm x 700mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 400mm x 500mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 400mm x 400mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 500mm x 550mm.</p> <p>S9-S10: Beams 3-4: Delaminated and spalled concrete with exposed and corroded reinforcement, 400mm x 600mm.</p> <p>S9-S10: Beams 3-4: Delaminated concrete near drainage pipe, 450mm x 200mm.</p> <p>S9-S10: Beams 4-5: Area of delaminated concrete, 700mm x 100mm.</p> <p>S9-S10: Beams 4-5: Minor spall, 100mm x 100mm.</p> <p>S9-S10: Beams 5-6: 2No. minor areas of delaminated concrete near S9, up to 200mm x 200mm.</p> <p>S9-S10: Beams 5-6: Area of spalled and delaminated concrete exposing and corroding the side of the top flange, 450mm x 150mm x 70mm.</p> <p>S9-S10: Beam 6 outer: Area of spalled and delaminated concrete near parapet beam, 300mm x 200mm.</p>		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623198-0002		
Component	Slab Or Arch	Slab	
Defect Type	ISp - Incipient spall Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10-S9: Incipient spall, 300mm x 100mm, within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623045-0005		
Component	Expansion Joint	S10 Joint	
Defect Type	Wea - Wear Steelwork defects		
Extent	SE - Defect present in over 50% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10 Expansion Joint: Corrosion on all Maurer Joint rails.		
Cause	Environmental Factors	Certainty	High
Comment on Cause	Age of element, constant weathering by traffic, and exposure to te elements		

Defect Code	DEF_3623185-0002		
Component	Expansion Joint	S10 Joint	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10: Damp area on bearing shelf between beams 2 & 3 (joint leakage). S10: West Face: Missing sealant at expansion joint. S10: East Face: Missing sealant at expansion joint.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623010-0004	
Component	Bearing	South Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SD - Defect present in 20% to not more than 50% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S10: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629123-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629127-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629128-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629126-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629130-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629131-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11-S10: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623179-0002	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	DefS - Deformation Steelwork defects	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11-S10: Deformation of beam 2, within close proximity of S11	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629025-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 9
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629046-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 9
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629020-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 8
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629044-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 8
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629018-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629041-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623001-0004	
Component	Bearing	South Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629095-0006	
Component	Superstructure Drainage	Surface Drainage
Defect Type	RSt - Rust stain/streak/spot Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14-S13: Corrosion on steelwork at locations of through deck drainage pipes	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623145-0002	
Component	Diaphragm	North Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15-S14: Delamination, 900 x 700, within east diaphragm above S14. Delamination and spalling (320mm x 220mm), within north face of diaphragm above S14, between beams 8 and 9	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629213-0003	
Component	Diaphragm	North Diaphragm
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S14: Damp area on diaphragm between beams 1 & 2 (believed to be emanating from drainage pipe)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623134-0002		
Component	Diaphragm	South Diaphragm	
Defect Type	WR - Running water Leaching/Staining		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15: Damp area on soffit of diaphragm between beams 5 & 6 (saw-cut joint leakage)		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623143-0002		
Component	Diaphragm	South Diaphragm	
Defect Type	ISp - Incipient spall Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15-S14: Delamination within east diaphragm, next to S15 saw-cut joint		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629232-0003		
Component	Diaphragm	South Diaphragm	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S15: Cracks and rust staining, indicative of delamination, within diaphragm between beams 5 & 6		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629233-0003	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15: Cracks and rust staining, indicative of delamination, within diaphragm between beams 8 & 9	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629215-0003	
Component	Superstructure Drainage	Surface Drainage
Defect Type	FrCo - Broken or fractured Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11-S10: Faulty drainage pipe connection, adjacent to south face of S10, leaking onto verge below	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629134-0005	
Component	Superstructure Drainage	Surface Drainage
Defect Type	Lse - Loose Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11-S10: Drainage pipe bracket not connected to deck soffit	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629133-0005	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	Lse - Loose Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11-S10: Drainage pipe bracket not connected to deck soffit	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629028-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629048-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629027-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629036-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	Main Beams: Surface corrosion on all beams, throughout.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629023-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629042-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629014-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	RS - Corroded/Rusting Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S16-S15: Corrosion on all beams, which is worst at abutment and pier interfaces, particularly at S15	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629050-0006	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629219-0003	
Component	Diaphragm	North Diaphragm
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9: Water dripping from joint between beams 2 & 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629161-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629156-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629160-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629158-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629151-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629154-0005		
Component	Longitudinal Beam (detail)	Longitudinal Beam	1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S9-S8: Corrosion on all beams, which is worse at pier interfaces		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629138-0005		
Component	Superstructure Drainage	Sub Surface Drainage	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10-S9: Areas of delamination and spalling associated with through deck drainage pipes (4m2).		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623053-0005		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RS - Corroded/Rusting Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	Medium		
Comments	S10-S9 East parapet: Significant corrosion, lamination, and section loss from east parapet, especially bottom rail between northernmost posts where a hole is present (55mm x 40mm), and rails between northernmost posts		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_3623197-0002	
Component	Diaphragm	North Diaphragm
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S10: Damp area on diaphragm between beams 3 & 4 (saw-cut joint leakage)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623199-0002	
Component	Diaphragm	North Diaphragm
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9: Damp areas on both elevations (saw-cut joint leakage)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623201-0002	
Component	Diaphragm	North Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S10-S9: Delamination, 800mm x 200mm, within east diaphragm. S9: East Side: Bearing 6: Area of delaminated concrete at outer edge, 300mm x 800mm.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623194-0002		
Component	Diaphragm	South Diaphragm	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10-S9: Delamination, 220mm x 150mm, within east elevation diaphragm at S10 joint. Diaphragm, south: Delamination to the diaphragm end, approx. 800mm x 200mm, adjacent to beam 6. Diaphragm, north and south: Significant delamination and spalling, exposing corroded reinforcement, to the diaphragm end, adjacent to beam 9. Diaphragm, south: Significant delamination and spalling, exposing corroded reinforcement, to the diaphragm end, entire area, adjacent to beam 4.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629144-0005		
Component	Longitudinal Beam (detail)	Longitudinal Beam 6	
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	S10-S9: Corrosion on all beams		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623184-0002		
Component	Diaphragm	North Diaphragm	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10: Delamination, 250mm x 160mm, within diaphragm between beams 1 & 2. Diaphragm, pier S10, west end: Spall, 300mm x 40mm, above beam 1. Diaphragm, pier S10, beams 3-4: Spall, exposed rebar, 700mm x 300mm. Diaphragm, pier S10, beams 1-2: Spall, exposed rebar, 200mm x 100mm, adjacent to beam 1.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623187-0002	
Component	Diaphragm	North Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S10: Delamination, 750mm x 630mm, within diaphragm between beams 3 & 4	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623150-0002	
Component	Bearing	North Bearing
Defect Type	MissCo - Missing Defects in components	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future	
Priority	High	
Comments	S14: East guided bearings' fixings are loose and there are gaps, up to 7mm wide, between both bearings and the deck. Guided Bearing, north: Loose bearing fixings, gap noted between bearing and deck, approx. 8mm, beams 6-7.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629062-0006	
Component	Superstructure Drainage	Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on some steel drainage components (hangers and pipe fittings)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629208-0003	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15-S14: Leaking drainage pipe, adjacent to S15, between beams 5 & 6	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629209-0003	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15-S14: Leaking drainage pipe, adjacent to S15, between beams 8 & 9	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629059-0006	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	WR - Running water Leaching/Staining	
Extent	SE - Defect present in over 50% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S15-S14: Corrosion on some steel drainage components (hangers and pipe fittings)	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629086-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629091-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629090-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629085-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S13-S12: Corrosion on all beams, which is worst at pier interfaces	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629214-0003	
Component	Slab Or Arch	Slab
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S13-S12: Areas of spalling with exposed reinforcement: 400mm x 250mm & 100mm x 50mm. S12-S13: Beams 1-2: Area of delaminated concrete above drainage channel, 180mm x 200mm. S12-S13: Beams 1-2: Area of delaminated concrete above drainage channel, 150mm x 150mm. S12-S13: Beams 1-2: Area of delaminated concrete above drainage channel, 360mm x 200mm. S12-S13: Beams 3-4: Area of delaminated concrete near weep pipe causing corrosion to beam 4 bottom flange, 1000mm x 700mm. S12-S13: Beams 4-5: Area of delaminated concrete near longitudinal joint, 900mm x 200mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 1500mm x 150mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 650mm x 150mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 900mm x 150mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 450mm x 280mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 2000mm x 240mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 1800mm x 220mm. S12-S13: Beams 4-5: 4No. areas of spalled and delaminated concrete near longitudinal joint, up to 350mm x 80mm. S12-S13: Beams 4-5: Area of spalled and delaminated concrete near longitudinal joint, 1300mm x 60mm. S12-S13: Beams 4-5: Area of spalled concrete near longitudinal joint above S13, approx. 250mm x 130mm.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623169-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S13 - S12: Delamination, 300 x 200, within west parapet beam		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3623170-0002		
Component	Slab Or Arch	Slab	
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S13-S12: Delamination, 350mm x 300mm, around drainage pipe between beams 3 & 4 (area is stained)		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629096-0005		
Component	Slab Or Arch	Slab	
Defect Type	RCCr - Reinforcement corrosion crack Cracks in concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S13-S12: Damp areas emanating from longitudinal joint have led to delamination and spalling (1m2). S12-S13: Beams 1-2: Area of cracked concrete above drainage channel, 0.7mm x 200mm.		
Cause	Certainty		
Comment on Cause			

Defect Code	DEF_3629101-0005	
Component	Slab Or Arch	Slab
Defect Type	RCCr - Reinforcement corrosion crack Cracks in concrete or masonry	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12-S11: Damp areas emanating from longitudinal joint have led to delamination and spalling (1.5m2). Cracking to east elevation adjacent to S11, approx. 1.5mm.	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623178-0002	
Component	Diaphragm	North Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11: Delamination, 400mm x 100mm, within east elevation diaphragm	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629104-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 8
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629108-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 7
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629105-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 6
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629110-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 5
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629107-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 4
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629114-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 3
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629116-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 2
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3629112-0005	
Component	Longitudinal Beam (detail)	Longitudinal Beam 1
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S12-S11: Corrosion on all beams, which is worse at pier interfaces. Large area of corrosion on beam 3	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623177-0002	
Component	Bearing	North Bearing
Defect Type	Debo - Debonding Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S11: Debonding of elastomeric bearings from bearing shelf at west end	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_3623007-0004	
Component	Bearing	North Bearing
Defect Type	PR - Rusting or rust staining from substrate Paints, coatings and protective systems	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	P2 - Minor loss of protection likely in the near future	
Priority	Low	
Comments	S11: Corrosion on all bearing plates	
Cause	Certainty	
Comment on Cause		

Defect Code	DEF_8237857		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Spl - Split Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S12-S11 Longitudinal Joint: Split in fabric cover, 270mm long, located 4m south of pier S11		
Cause	Age Expired	Certainty	Medium
Comment on Cause	Age of element combined with structural movement and exposure to the elements may have led to split in fabric cover. Repair is recommended to prevent water ingress		

Defect Code	DEF_8237859		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S12-S11 Longitudinal Joint: Debonding of rubber repair, located 5m south of pier S11		
Cause	Environmental Factors	Certainty	Medium
Comment on Cause	Bonding issues and exposure to the elements		

Defect Code	DEF_8237945		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S13-S12 Longitudinal Joint: Failed/debonded splice, leaving joint uncovered, located 3m north of S13. S12-S13: Beams 4-5: Light shining through longitudinal joint along deck with signs of water leakage.		
Cause	Age Expired	Certainty	Medium
Comment on Cause	Age of element combined with structural movement and exposure to the elements may have led to failure/debonding of splice and repair/covering of joint is recommended to prevent water ingress		

Defect Code	DEF_8237946		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S14-S13 Longitudinal Joint: Failed/debonded splices, leaving joint uncovered at two locations: 10m south of S13 and 2m north of S14		
Cause	Age Expired	Certainty	Medium
Comment on Cause	Age of element combined with structural movement and exposure to the elements may have led to failure/debonding of splice and repair/covering of joint is recommended to prevent water ingress		

Defect Code	DEF_8237960		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Spl - Split Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S15-S14 Longitudinal Joint: Split in fabric cover, 50mm long, located 9m south of pier S14		
Cause	Age Expired	Certainty	Medium
Comment on Cause	Age of element combined with structural movement and exposure to the elements may have led to split in fabric cover. Repair is recommended to prevent water ingress		

Defect Code	DEF_8237961		
Component	LNJ - Longitudinal joint	LNJ - Longitudinal joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	Medium		
Comments	S16-S15 Longitudinal Joint: Failed/debonded splice, leaving joint uncovered, located 4m north of S16		
Cause	Age Expired	Certainty	Medium
Comment on Cause	Age of element combined with structural movement and exposure to the elements may have led to failure/debonding of splice and repair/covering of joint is recommended to prevent water ingress		

Defect Code	DEF_8237972		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S11-S10 East parapet: Significant corrosion and section loss from east parapet, especially from bases of posts 3 and 6, cracks/holes (35mm and 30mm) within bases of northernmost and southernmost posts, and rails between northernmost posts		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8237978		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	DefS - Deformation Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S12-S11 East parapet: Deformation of bottom rail between northernmost posts, up to 40mm		
Cause	Unable to Determine	Certainty	Low
Comment on Cause	Deformation of bottom rail may have been caused by corrosion and loss of section and should be assessed for any loss in function and repaired or replaced		

Defect Code	DEF_8237983		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S13-S12 East parapet: Significant corrosion, lamination, and loss of section from east parapet, especially base of southernmost post		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8237984		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S14-S13 East parapet: Significant corrosion, lamination, and loss of section from east parapet, especially bases of southernmost posts		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8237987		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S6-S5 East Parapet: Significant corrosion, lamination, and loss of section from east parapet, especially base of southernmost post		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238020		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S8-S7 East parapet: Significant corrosion, lamination, and loss of section from east parapet, especially base of northernmost post		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238026		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S9-S8 East parapet: Significant corrosion, lamination, and section loss from east parapet, especially bottom rail between southernmost posts where a hole is present (50mm x 10mm)		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238208		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S7-S6 East parapet: Significant corrosion, lamination, and section loss from east parapet, especially bottom rail between posts 3 and 4 where a hole is present (10mm x 10mm)		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Posts and rails with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238953		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S8-S7 West parapet: Areas of significant corrosion, lamination, and loss of section from west parapet		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238558		
Component	Carriageway Surfacing	Carriageway Surfacing	
Defect Type	CrCo - Cracked Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S9-S8 Carriageway surfacing: Transverse cracking across buried joint above S9 (typical defect)		
Cause	Thermal Movement	Certainty	Medium
Comment on Cause	Due to crack's location above a buried joint, cause of crack is believed to be thermal movement and a saw cut and seal may be required		

Defect Code	DEF_8238895		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S16-S15 West parapet: Significant corrosion, lamination, and 100% section loss from members above S16		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238940		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S15-S14 West parapet: Areas of significant corrosion, lamination, and section loss from west parapet		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238951		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	MissCo - Missing Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	High		
Comments	S11-S10 West parapet: Bolt connecting mesh rail to post is missing, located first post from S10		
Cause	Unable to Determine	Certainty	Low
Comment on Cause			

Defect Code	DEF_8238952		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S11-S10 West parapet: Significant corrosion, lamination and section loss from west parapet. Worst areas are bases of posts, post brackets and welds, especially second rail from top between posts 2 and 3 (from S11), base of first post (from S10), and welds above S10		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238973		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S12-S11 Parapets: Areas of significant corrosion, lamination, and loss of section from both parapets		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238974		
Component	Road Vehicle Restraint System	East Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S12-S11 Parapets: Areas of significant corrosion, lamination, and loss of section from both parapets		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238975		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S9-S8 West parapet: Areas of significant corrosion, lamination, and section loss from west parapet		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238976		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S14-S13 West parapet: Areas of significant corrosion, lamination, and section loss from west parapet, especially bottom rail where there are areas of 100% section loss		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8238977		
Component	Road Vehicle Restraint System	West Parapet	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D4S - Severe: Defect is presenting a danger to the public		
Priority	High		
Comments	S7-S6 West parapet: Areas of significant corrosion, lamination, and section loss from west parapet		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of element combined with environmental factors (prolonged exposure to the elements, salt laden air, gritting of A19) has led to significant corrosion and section loss. Members with holes and/or significant section loss should be replaced		

Defect Code	DEF_8266727		
Component	Diaphragm	North Diaphragm	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10: North Side: Bearings 3-4: Cracked concrete, measuring at 1.0mm x 600mm.		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8266116		
Component	Leaf Pier or Column	Leaf Pier Column	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S13: East leg, west elevation spall 120 x 200 x 30 mm.		
	Areas of significant delamination and spalling, exposing corroded reinforcement, to the diaphragm end.		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8266224	
Component	Leaf Pier or Column	Pier S5
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S5: West Leg: Several areas of cracking, ranging from hairline to 1mm at the base of pier. S5: Middle Leg: Several areas of cracking, ranging from hairline to 1mm at the base of pier. S5: East Leg: Several areas of cracking, ranging from hairline to 0.6mm at the base of pier. S5: West Face: Area of vertical cracking, measuring at 0.7mm x 400mm, top of pier. S5: Slip Leg (West): North Side: Area of horizontal cracking, measuring at 0.3mm x 1000mm, top of pier.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266420	
Component	Leaf Pier or Column	Pier S5
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	<p>S5: Middle Leg: South Side: Area of concrete delamination at base of column, measuring at 2500mm x 700mm.</p> <p>Middle Leg: North Side: Area of concrete delamination exposing corroded reinforcement behind the service duct, measuring approx. 2950mm x 1600mm x 60mm.</p> <p>S5: Middle Leg: North Side: Area of concrete delamination at base of pier, measuring at 700mm x 500mm.</p> <p>S5: West Face: Area of delaminated concrete around repair, measuring at 200mm x 150mm, top of pier.</p> <p>S5: Slip Leg (West): North Side: Area of delaminated concrete, measuring at 280mm x 100mm, top of pier.</p> <p>North Side: Area of delaminated concrete, measuring at 250mm x 220mm, top of pier.</p> <p>North Side: Area of delaminated and spalled concrete, measuring at 1100mm x 800mm.</p> <p>North Side: Area of delaminated concrete, measuring at 300mm x 230mm.</p> <p>North Side: Area of delaminated concrete, measuring at 380mm x 640mm.</p> <p>North Side: Area of delaminated concrete, measuring at 170mm x 720mm.</p> <p>Middle Leg: North Side: Area of delaminated concrete, measuring at 500mm x 300mm.</p> <p>Middle Leg: North Side: Area of delaminated concrete, measuring at 350mm x 1100mm.</p> <p>Middle Leg: North Side: Area of delaminated concrete, measuring at 1000mm x 770mm.</p> <p>Middle Leg: North Side: Area of delaminated concrete, measuring at 350mm x 350mm.</p> <p>East Leg: East Side: Area of delaminated concrete, measuring at 150mm x 260mm, base of pier.</p>	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266448	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S6: West Leg: Area of minor spalled concrete at base of pier, 350mm x 90mm. S6: East Leg: Areas of minor spalled concrete at base of pier, up to 100mm x 80mm x 15mm. Spall to west face S6 east, approx. L:100mm, W:50mm Spall to west face S6 east, approx. L:250mm, W:150mm D:15mm	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266451	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S7: East Leg: Several areas of cracking, ranging from hairline to 0.3mm at the base of pier. S7: West Leg: Several areas of cracking, ranging from hairline to 0.4mm at the base of pier.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266637	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12: West Side: Area of delaminated concrete, 300mm x 250mm. S12: West Side: Areas of cracking, up to 0.7mm wide. Spalling, exposing corroded reinforcement (100mm x 100mm) within east elevation of diaphragm above S12.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266716	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	RCo - Rusty/Corroded Defects in components	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future	
Priority	Low	
Comments	S9-S10: Beams 1-2: Typical corrosion and section loss to drainage supports throughout. S9-S10: Beams 1-2: Unsupported drainage channel - drainage support detached from deck. S9-S10: Beams 3-4: Corrosion with section loss to drainage channel - typical.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266728	
Component	Diaphragm	North Diaphragm
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9: South Side: Bearings 2-3: Cracked concrete, 1.4mm x 600mm. S9: South Side: Bearings 3-4: 2No. cracked concrete, up to 1.4mm x 150mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266732	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12: Bearing 9: East: Area of spalled concrete with exposed and corroded reinforcement, 100mm x 100mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266813	
Component	Road Vehicle Restraint System	West Parapet
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9-S10: West: Vertical crack, measuring at 0.7mm and full depth of beam. S9-S10: West: Vertical crack, measuring at 0.5mm and full depth of beam. S9-S10: West: Vertical crack, measuring at 1.0mm and full depth of beam. S9-S10: West: Vertical crack, measuring at 0.3mm and full depth of beam. S9-S10: West: Vertical crack with leachate staining, measuring at 0.6mm and full depth of beam. S9-S10: West: 2No. Vertical cracks, measuring at 1.1mm and full depth of beam.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266814	
Component	Road Vehicle Restraint System	West Parapet
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9-S10: West: Minor spalling to concrete beam, measuring at 50mm x 50mm. S9-S10: West: Area of delaminated concrete on the underside of parapet beam and adjacent main beam, exposing part of the top flange, measuring at 800mm x 150mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266816	
Component	Road Vehicle Restraint System	East Parapet
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9-S10: East: Vertical crack, measuring at 0.3mm x 500mm. S9-S10: East: Vertical crack, measuring at 0.2mm x 650mm. S9-S10: East: Vertical crack with leachate staining, measuring at 0.1mm and full depth of beam. S9-S10: East: Vertical crack, measuring at 0.9mm x 700mm. S9-S10: East: Vertical crack with leachate staining, measuring at 0.2mm x 550mm. S9-S10: East: Horizontal and vertical cracks, measuring at 0.8mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266817	
Component	Road Vehicle Restraint System	East Parapet
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S9-S10: East: Area of delaminated concrete, 250mm x 250mm. S9-S10: East: Area of delaminated concrete, 370mm x 100mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266818	
Component	Road Vehicle Restraint System	West Parapet
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12-S13: West: Area of delaminated concrete on underside of cantilever beam, 300mm x 100mm. S12-S13: West: Area of delaminated concrete on underside of cantilever beam, 380mm x 250mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266820	
Component	Road Vehicle Restraint System	West Parapet
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12-S13: West: Area of cracked concrete on cantilever beam, 0.5mm x full depth.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266821	
Component	Road Vehicle Restraint System	East Parapet
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12-S13: East: Area of cracked concrete, 0.3mm x full depth of cantilever. S12-S13: East: Area of cracked concrete, 0.4mm x 500mm. S12-S13: East: Area of cracked concrete, 0.6mm x full depth of centilever. S12-S13: East: Area of cracked concrete, 0.7mm x 1000mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8266825	
Component	Road Vehicle Restraint System	East Parapet
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	S12-S13: East: Area of spalled and delaminated concrete with exposed and corroded reinforcement, top of cantilever, 1450mm x 220mm. S12-S13: East: Area of spalled concrete with exposed and corroded reinforcement, 260mm x 420mm. S12-S13: East: Area of spalled concrete with exposed and corroded reinforcement, 100mm x 160mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283112	
Component	Slab Or Arch	Slab
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	<p>Soffit 1-2: Cracking + delaminating + hollow concrete around drain pipe, approx. 570mm.</p> <p>Soffit 4-5: Area of delamination + hollow, approx. L:350mm, W:200mm</p> <p>Soffit 4-5: Area of delamination + cracking + staining , approx. L:400mm, W:10mm</p> <p>Soffit 4-5: Delamination + spall + cracking + staining, approx. L:1.9m, W:400mm</p> <p>Soffit 4-5: Delamination + spall + cracking + staining, approx. L:1.5m, W:800mm</p> <p>Soffit 4-5: Multiple areas of: Delamination + spall + cracking + staining</p> <p>Soffit 5-6: Delamination + hollow concrete around drain pipe, approx. □:550mm</p> <p>Soffit 5-6: Delamination + hollow concrete around drain pipe, approx. □:550mm</p> <p>Soffit 5-6: Delamination + hollow concrete + exposed reinforcement around drain pipe, approx. □:550mm</p> <p>Soffit 5-6: Delamination + hollow concrete + exposed reinforcement around drain pipe, approx. □:550mm</p>	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8282766	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Hairline crack to the north face - west pier	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8282794	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Delamination/spall to the west face (approx. L:1100mm W:2100) - east pier. Pier S5, south face: Delamination to the E/W-N leg, 200mm x 610mm. Pier S5, north face: Delamination to the E/W-N leg, 670mm x 460mm. Pier S5, north face: Delamination to the E/W-N leg, 280mm x 220mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8282798	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Sp - Spalled area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Spall to the north east corner (L:180mm, W:60mm, D:10mm) - west pier. Spall with exposed reinforcement to the south face (L:150mm, W:10mm).	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8282883	
Component	Diaphragm	South Diaphragm
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Diaphragm between beam 3-4 S8: Cracking/delamination, when tapped spall + reinforcement approx. L:900mm, W:220mm, D:60mm	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283103	
Component	Superstructure Drainage	Surface Drainage
Defect Type	RLoS - Corrosion - loss of section Steelwork defects	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Corrosion to the drain pipe between beams 1-2 Corrosion to the drain pipe fixing adjacent to the drain pipes	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283113	
Component	Diaphragm	South Diaphragm
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Diaphragm 4-5 S12: Crack to outer face, approx. 3mm	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283420	
Component	Slab Or Arch	Slab
Defect Type	Holl - Hollow (delaminated) area Loss of concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Cantilever, west: Delamination, 1100mm x 450mm, Cantilever, west: Delamination and minor spalling, 1420mm x 200mm. Concrete Deck, soffit: Map cracking, 0.3mm - 0.6mm wide, beams 2-3.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283215	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Pier S9, north face: Vertical crack to the crosshead beam, 0.3mm wide and 1480mm long, beams 1-2. Pier S13, south face: Vertical crack to the crosshead beam, 0.3mm wide and 1800mm long, beams 5-6.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283371	
Component	Slab Or Arch	Slab
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Cantilever, east: Vertical crack, 0.5mm wide and 790mm long. Cantilever, east: Vertical crack, 0.5mm wide and full width. Concrete Deck, soffit: Horizontal crack, 0.3mm wide, beams 6-7. Concrete Deck, soffit: Map cracking, 0.3mm - 0.4mm wide, beams 6-7. Concrete Deck, soffit: Map cracking, 0.3mm - 0.4mm wide, beams 6-7. Concrete Deck, soffit: Delamination, 450mm x 240mm, beams 7-8. Concrete Deck, soffit: Horizontal cracking, up to 0.3mm wide, beams 7-8.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283404	
Component	Slab Or Arch	Slab
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Concrete Deck, soffit: Horizontal crack, 0.3mm wide, beams 6-7. Concrete Deck, soffit: Map cracking, 0.3mm - 0.4mm wide, beams 6-7. Concrete Deck, soffit: Map cracking, 0.3mm - 0.4mm wide, beams 6-7. Concrete Deck, soffit: Horizontal cracking, up to 0.3mm wide, beams 7-8.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283430	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	RCo - Rusty/Corroded Defects in components	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Drainage, pipe: Significant corrosion to drainage pipe bracket, some stalactite build up, >20%, beams 1-2.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283444	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	Deg - Degraded Defects in components	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Drainage, cover: Surface corrosion and some section loss at the base, >20%, south face of the E/W-N leg.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283590	
Component	Diaphragm	South Diaphragm
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Areas of cracked concrete, up to 1.0mm x 600mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283565	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Several areas of cracking, ranging from hairline to 0.6mm at the base of pier. S6: East Leg: Several areas of cracking, ranging from hairline to 0.3mm at the base of pier.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283579	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Several areas of cracking, up to 0.7mm wide.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283588	
Component	Leaf Pier or Column	Leaf Pier Column
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Areas of cracking throughout, up to 0.3mm x 1800mm.	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283626	
Component	Diaphragm	North Diaphragm
Defect Type	DSCr - Drying shrinkage crack Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	1. Diaphragm between beam 5-6 S7: Hairline crack 2. Diaphragm between beam 3-4 S7: Cracking to the repair	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283627	
Component	Diaphragm	North Diaphragm
Defect Type	DSCr - Drying shrinkage crack Cracks in concrete or masonry	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	1. Diaphragm 4-5 S11: Corrosion staining + cracking 2. Diaphragm 5-6 S11: Vertical crack to the diaphragm 3. Diaphragm 6-7 S11: Cracking to the edge, adjacent to the bearings 4. Diaphragm 7-8 S11: Multiple cracks	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8283653	
Component	Superstructure Drainage	Sub Surface Drainage
Defect Type	RLoS - Corrosion - loss of section Steelwork defects	
Extent	SC - Defect present in 5% to not more than 20% of area or length of element	
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future	
Priority	Low	
Comments	Corrosion on drainage pipe fixing between beams 1-2	
Cause	Not Specified	Certainty
Comment on Cause		

Defect Code	DEF_8316707		
Component	Expansion Joint	S14 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S14 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

Defect Code	DEF_8284015		
Component	Bearing	North Bearing	
Defect Type	RLoS - Corrosion - loss of section Steelwork defects		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	Varying levels of corrosion to the bearing plates, bearing 4 and 9 at the longitudinal and expansion joint most affected.		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8293023		
Component	Leaf Pier or Column	Leaf Pier Column	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	Spalling (400mm x 50mm) at base of east column (south face)		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8293044		
Component	Leaf Pier or Column	Leaf Pier Column	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	Large areas of spalled/ delaminated concrete, some with exposed corroded rebar on pier S15 columns predominantly from ground level up to 2500mm above ground level. 1720 x 530 mm concrete spall/ delamination below Beam 4 with corrosion staining and 290 x 280 mm spall/ delamination adjacent to existing repair on pier S15 crosshead.		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8293067		
Component	Wing Wall	West Wingwall	
Defect Type	Cr - Crack of uncertain origin or a combination of causes Cracks in concrete or masonry		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	1). Up to 0.5mm wide cracks with leachate deposits observed on some of them. Some crazing noted on previously repaired concrete. 2). An unfilled 850 x 70mm repair cut-out adjacent other previous repairs on the west wingwall.		
Cause	Not Specified	Certainty	
Comment on Cause			

Defect Code	DEF_8316608		
Component	Carriageway Surfacing	Carriageway Surfacing	
Defect Type	CrCo - Cracked Defects in components		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	S10-S9 Carriageway surfacing: Transverse crack within carriageway surfacing, located adjacent to S9 expansion joint		
Cause	Unable to Determine	Certainty	Low
Comment on Cause			

Defect Code	DEF_8316648		
Component	Expansion Joint	S9 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S9 Expansion Joint (buried joint): Cracking/debonding between bitumen sealant and carriageway above S9 (typical)		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with exposure to the elements and surface water likely to have contributed to debonding between bitumen sealant and carriageway. Resealing is recommended		

Defect Code	DEF_8316706		
Component	Expansion Joint	S16 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S16 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

Defect Code	DEF_8316708		
Component	Expansion Joint	S12 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S12 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

Defect Code	DEF_8316709		
Component	Expansion Joint	S10 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S10 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

Defect Code	DEF_8316710		
Component	Expansion Joint	S8 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S8 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

Defect Code	DEF_8316711		
Component	Expansion Joint	S6 Joint	
Defect Type	Debo - Debonding Defects in components		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Medium		
Comments	S6 Expansion Joint: Detachment of elastomeric insert from carrier rails, and debonding between carrier rails and nosings. Silt and debris in elastomeric insert		
Cause	Age Expired	Certainty	High
Comment on Cause	Age of joint combined with being subjected to constant heavy loading has likely led to debonding between BEJ joint carrier rails and nosings. Replacement is recommended		

4. All Draft, Instructed and Authorized Works Orders

‘N.B., The Origin of Work for each of these Work Orders is Routine Inspections (currently Principal, General, Special and Monitoring)’

5. Additions to the next Routine Maintenance

6. Defects Addressed by Inspector on Site

7. Defects NOT Confirmed at this Inspection

8. All Draft, Instructed and Authorized Works Orders from sources other than inspections

N.B. Currently these would be work orders with an Origin of Work not set to Routine Inspection, e.g, BACO Parapets or ASR

9. Other Planned Inspections

Type of Inspection	Planned Start Date	Due Date	Description	Status
Structures General Inspection		01/11/2024		Not Started
Structures General Inspection		01/11/2026		Not Started
Structures Principal Inspection		01/11/2028		Not Started

10. Appendix 1



Structure Report

Tees Viaduct S Abut -S5 STR_11060 /A19//131.00//1
A19 131.00

'WARNING – Assume that Asbestos is present. Be familiar with the relevant Highways England Help Guide and follow your own safe working procedures.'

1. Structure Summary - STR_11060

Road	A19	Custodian	DBFO
OS Grid Reference	447470 / 518900	Designer	Dobbie Sandford And Fawcett And Partners
Year Constructed	1975	Last Principal Inspection	02/05/2022
Maintaining Agent	Autolink (Dbfo)	Frequency Of Principal Inspection	6
Geographical Area	Middlesbrough	Last General Inspection	18/02/2021

1.1 Structure Type

Bridge Type	Elevated Road - Underbridge	Original Design Load	HA + 45 HB
High Load Route	N	No. Spans	11
Heavy Load Route	N	Length (m)	239.60
DBFO	Y		
Scour Susceptible	N	Overall Construction Material	Composite

1.2 Description Of Structure

The Tees Viaduct South Abutment to Pier S5 including the South Approach forms the southern section of the Tees Viaduct and carries the A19 across the A66, the South to East Stockton Road I/C Slip Road and open land as far as Pier S5.

The Tees Viaduct was designed by Dobbie, Sandford Fawcett & Partners and was commissioned during November 1975.

This section of the Tees Viaduct is comprised of eleven simply supported deck spans, each measuring approximately 22m, between the south abutment and pier S5 having a total length of 238.7m.

The decks are constructed of universal beams composite with in-situ reinforced concrete slabs and rest on elastomeric bearings positioned on the south abutment and 11 piers numbered S15 to S5 inclusive, the deck slabs are tied together in pairs at piers S15, S13, S11, S9 and S7 and fixed to these piers.

The south abutment and piers are all constructed using cast in-situ reinforced concrete and are founded on 610mm diameter reinforced concrete bored piles.

The carriageways south of the south abutment are laid on compacted sub base on constructed earthworks.

1.3 Articulation

The deck is simply supported on elastomeric bearings. Longitudinal fixity is provided at the south end of each pair of spans, the piers having separate bearings for each span. There are steel guide bearings, manufactured by CCL, on piers S12 and S14 to prevent lateral movement of the deck on spans where there is a longitudinal joint.

2. Load Management for C&U and STGO Live Loading

No load management data for structure

3. Assessments, Inspection and Maintenance History

3.1 Completed Inspections

Inspection Type	Inspection Date	Inspection Description
Structures Principal Inspection	02/05/2022	<p>Tees Viaduct, South abutment to S5, is in fair condition, overall, showing signs of deterioration since 2017.</p> <p>Foundations: There are no signs of movement or settlement.</p> <p>South abutment (S16): Extensively repaired prior to the 2017 Principal Inspection and remains in good condition apart from areas of delamination and minor spalling within the ballast wall. The curtain walls exhibit rust staining, however, there is no delamination. Debris, silt deposits and pigeon droppings were observed on the bearing shelf.</p> <p>Wing walls: Both wing walls are in good condition except for minor defects including non-structural cracks, crazing within repairs, and an unfilled repair cut-out adjacent to other repairs within the southwest wing wall. Some cracks are accompanied by leachate.</p> <p>Piers: Good condition apart from non-structural cracks, areas of delamination and spalling exposing reinforcement within the bearing shelf, crosshead, and columns. Most of the areas of delamination and spalling are the result of expansion and/or longitudinal joint leakage, however, an area of spalling within the base of the east column for S9 is believed to be the result of fire damage. Diagonal cracks within crossheads at column interfaces indicate shear cracking, cracks located above columns are indicative of hogging and vertical cracks about mid-width of the crossheads indicate flexure, however, widths of cracks have not deteriorated since 2017 and are not considered significant at present. Debris, silt deposits and pigeon droppings were observed on the bearing shelves, especially on top of S15 where pigeons are roosting adjacent to the A66 (and were in 2017). Damp areas are present as result of joint leakage, and inoffensive graffiti is present on columns.</p> <p>Bearings: Most bearings are functioning as intended; however, some of the fixings for the east set of guided bearings above S14 are either not engaged or loose and gaps are present at the deck interface. All bearing plates and fixings are affected by a varying degree of corrosion, the worse affected tend to be below the longitudinal joint or elevations.</p> <p>Main beams: All main beams are affected by corrosion; the worst areas are present on the ends of the beams at the bearing and diaphragm interfaces and where through deck drainage pipes discharge out of the deck and/or leak on the steelwork. Most of the temporary work's fixings exhibit corrosion and one set of fixings through beam 4 of span S11-S10 is loose. Beams 4 and 5 for spans S16-S15 & S15-S14 are affected by pigeon droppings (steel mesh panels have been installed between these beams to 'catch' falling concrete and pigeons are roosting in these areas). Beam 2 for span S11-S10 exhibits minor deformation, this deformation is not above the carriageway and could have arisen during fabrication or installation.</p>

		<p>Diaphragms: Fair condition with areas of delamination and spalling, and historical cracks are commonplace. Although most areas of delamination and spalling are located at joints, some are isolated away from joints. Cracks are mostly diagonal and vertical, and occasionally horizontal, and show no significant deterioration since 2017. An unidentifiable steel bar is protruding out of the diaphragm above S14, between beams 4 and 5. Damp areas are present, mainly as result of joint leakage, although an area of leakage on the diaphragm above S13 is emanating from the interface with beam 4.</p> <p>RC deck slabs: Fair condition, with areas of delamination and spalling adjacent to the longitudinal joint, through deck drainage pipes and drainage fixings, locations that are susceptible to moisture ingress. Non-structural cracks are present within the deck soffit and parapet beams. Some cracks are accompanied by leachate.</p> <p>Drainage: Generally functioning as intended, except for a couple of leaking guttering connections. Most of the steel drainage components and fixings exhibit corrosion, especially the hangers, with section loss observed to the worst affected and parts of the steel drainage pipes. Parts of the guttering fixed to the south abutment (S16), and piers S15 and S14 are blocked with pigeon droppings, pigeon carcasses and silt. Most of the through deck drainage pipes are dry, and some have stalactite formation and are likely to be partially blocked. Some of the drainage system components and fixings are displaced, loose, or missing. Gullies in the carriageway were found blocked above spans S10-S11, S12-S13, S13-S14, and S15-S16, however, these have not been recorded as all gullies were being cleaned at the time of inspection.</p> <p>Waterproofing: Deck soffits are dry, with evidence of historical leakage only, suggesting the waterproofing is functioning correctly. The fall in the deck is likely to helping with removal of surface water.</p> <p>Surfacing: Fair condition, with the carriageway above all spans exhibiting weathering and tracking, and misalignment of the southbound carriageway immediately north of S7 joint. Transverse cracks are present within the carriageway surfacing, located above buried joints and adjacent to BEJ's. The verges exhibit regular transverse cracking (probably due to a lack of movement joints), and break-up of the surfacing around joints.</p> <p>BEJ expansion joints and saw-cut joints: Most are leaking, as indicated by damp areas on the elevations and bearing shelves beneath. All BEJ joints have corrosion on their rails. There is debonding between the BEJ joint carrier rails and bitumen/nosing, and detachment of rubber from carrier rails (which may have been caused by silt in the elastomeric inserts as well as constant loading from heavy vehicles). Most bitumen seals have cracked/debonded and the polysulphide sealant between parapet beams is cracked/debonded, torn or missing.</p> <p>Longitudinal Joint: Continues to leak and the cover in the central reservation has deteriorated since 2017. The splices 4m north of S16, 2m north of S14, 10m south of S13, and 3m north of S13 have failed/debonded leaving the joint</p>
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		<p>uncovered. There are holes and splits in the cover located 9m south of pier S14, above S12-S13, and 4m south of pier S11. A repair located 5m south of pier S11 has debonded.</p> <p>Parapets: There are extensive areas of paint loss and significant corrosion and section loss from both parapets; parts of the parapet have corroded through and are no longer fit for purpose. Other defects include slight deformation (up to 40mm) of the S12-S11 east parapet bottom rail, between the northernmost posts; the S11-S10 west parapet is missing a bolt that connects the mesh panel rail to the first post north of the S10 joint; and the S6-S5 west parapet is missing a cap missing from the third post. The previously recorded area of impact damage to the S6-S5 damage was not observed during this inspection, and it is assumed the affected area has been repaired and parapet repainted, locally. Replacement of the parapets is recommended, however, with the posts being socketed into the parapet beam, this may be difficult.</p> <p>Ultra Sonic thickness tests have been carried out and are being assessed before renewal works are planned.</p> <p>Safety fencing: Areas of corrosion are present, and these are localised to the ends and posts. The terminations are not connected to the parapets.</p> <p>Signage: Corrosion is present on the sign post base plates.</p> <p>Lighting: The lighting units fixed to the south abutment (S16) and pier S14 have been replaced since the previous inspection and were functioning at the time of inspection.</p>
Structures General Inspection	18/02/2021	<p>The general condition of Tees Viaduct, South Abutment to S5 is good.</p> <p>Foundations There is no evidence to indicate that there are defects in the foundations.</p> <p>South Abutment and Wing Walls Vertical cracks were recorded in both wing walls. The last Principal Inspection reported that the abutment and wing walls had undergone extensive repairs. Areas of delamination and minor spalls on the ballast wall, and rust staining on the curtain walls were noted.</p> <p>Piers The piers were inspected from ground level. Localised areas of spalling, delamination and cracking were recorded at piers S9 and S15. Spalls at the base of pier S15 have partially exposed the sacrificial anodes on the west face of the west column. The spall at the base of pier S9 has been caused by fire damage. Minor areas of graffiti are present. The last Principal Inspection reports these defects in more detail, including areas of delamination in the cross-head at pier S15.</p> <p>Bearings The bearings were inspected from ground level; no significant defects were detected. The last Principal Inspection reported most bearings were functioning as</p>

		<p>intended. The bolts for the east set of guide bearings at pier S14 were not engaged or loose; gaps of up to 7mm were noted between the bearings and the deck. All bearing plates and connections were affected by a varying degree of corrosion. Some of the elastomeric bearings at piers S5 and S11 have de-bonded from the structure. Spalling, delamination, and cracking of the bearing plinths was noted at pier S15. Some of the dowels are not present in the fixed bearings supporting the two outer beams.</p> <p>Main Beams The main beams were inspected from ground level. Areas of surface corrosion were noted, particularly at the beam ends, and on the edges of the bottom flanges of the outer beams The last Principal Inspection reports these defects in more detail. Beam 2, between piers S10 and S11 had suffered a minor deformation.</p> <p>Concrete Deck and Diaphragms The concrete deck and diaphragms were inspected from ground level. Isolated areas of spalling and exposed reinforcement were recorded. The last Principal Inspection reports these defects in more detail, including areas of delamination and cracking. The spalled and delaminated areas were particularly prevalent in areas surrounding the drainage pipes through the deck and below the deck joints.</p> <p>Expansion Joints and Tied Joints Surface corrosion was noted along the full length of the edge rails at the expansion joints; the sealed gaps are full of debris. Several of the seals along the line of the joints and at the deck edges are missing or have failed, on both the expansion joints and the tied joints. The last Principal Inspection reports these defects in more detail. At the time of the inspection most of the joints were leaking.</p> <p>Longitudinal Joint The longitudinal joint rubber seal protection is partially split between piers S13 and S14; leakage from the joint was noted between piers S11 and S12.</p> <p>Parapets Relatively extensive areas of corrosion and breakdown of the protective treatment were recorded throughout. A section of missing mesh was noted adjacent to the bull nose on the west parapet, and other isolated areas of minor mesh damage and loose mesh were noted.</p> <p>Lighting Columns The last Principal Inspection reported corrosion on the lighting column base plates and connections.</p> <p>Traffic Signs The last Principal Inspection reported corrosion on the sign post base plates.</p> <p>Drainage The surface water drainage system mounted to the deck soffit is suffering from</p>
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		<p>surface corrosion. A joint in the pipe is leaking between pier S15 and the south abutment.</p> <p>The last Principal Inspection reported two leaking connections in the deck mounted drainage system; and some of the components and fixings are displaced, loose, or missing. Most of the drainage pipes through the deck were dry and those showing signs of activity were partially blocked. Parts of the guttering fixed to the south abutment and piers S15 and S14 were also partially blocked.</p> <p>Waterproofing There is no evidence to indicate that the bridge deck waterproofing is not functioning as intended. The last Principal Inspection reported that the deck soffits were dry with evidence of historical leakage only.</p> <p>Surfacing A few transverse cracks in the surfacing were noted adjacent to the free and tied joints. A repair is breaking down adjacent to joint S8. The last Principal inspection reported parts of the surfacing in the verges and adjacent to joint S7 had broken up and cracks are present in the east verge and central reserve.</p> <p>Approach Embankments No significant defects were detected.</p>
Structures General Inspection	22/11/2018	<p>Foundations: There are no observations to suggest any defects with the foundations.</p> <p>Piers: The last Principal Inspection noted there are areas of delamination with associated non-structural cracks within the bearing shelf, crosshead and both columns of S15, there is also damp areas, pigeon droppings and silt on the bearing shelf of S15, non-offensive graffiti was observed on the columns of S11, S10 and S9.</p> <p>South abutment: The abutment has previously been repaired. The previous PI observed pigeon droppings and silt deposits are present on the bearing shelf. Areas of delamination and minor spalls are present within the ballast wall. The curtain walls exhibit rust staining, but there is no delamination.</p> <p>Wingwalls: The wingwalls have of areas of non-structural vertical and horizontal cracks.</p> <p>Bearings: The previous Principal Inspection noted the bearings were functioning as intended; however, some of the fixings for the east set of guided bearings above S14 are either not engaged or loose and gaps are present at the deck interface. All of the bearing plates and fixings are affected by a varying degree of corrosion. Some of the elastomeric bearings above S5 and S11 have debonded from the deck or the bearing shelf. Some of the bearing plinths above S15 exhibit cracks that are accompanied by delamination and spalling.</p> <p>Main beams: All the main beams are affected by corrosion with the worst areas at the ends of the beams. The previous PI noted most of the temporary works fixings exhibit corrosion and one set of fixings through beam 4 of span S11-S10</p>

		<p>is loose. Beams 4 and 5 for spans S16-S15 & S15-S14 are affected by pigeon droppings. Beam 2 for span S11-S10 exhibits minor deformation.</p> <p>Diaphragms: Are generally in good condition, except for delamination, spalling and cracks. Some of the areas of delamination and spalling are isolated but others are commonly located at the joints above the supports.</p> <p>Slabs: The previous PI observed there is of areas of delamination and spalling at the longitudinal joint, next to the deck drainage pipes and drainage fixings, cracks were present within the deck soffit and parapet beams.</p> <p>Drainage: The drainage systems carrying surface water have leaking connections. Most of the steel drainage components and fixings exhibit corrosion, especially the hangers. The last PI noted that parts of the guttering fixed to the south abutment, S15 and S14 are either blocked. Most of the through deck drainage pipes are dry and the pipes showing signs of activity are partially blocked. Some of the drainage system components and fixings are displace, loose or missing. Pigeon droppings are present on some drainage pipes.</p> <p>Waterproofing: There are no observations to suggest the waterproofing is not functioning as intended. The previous PI noted there was historical staining on some of the beams.</p> <p>Surfacing: The previous PI recorded there is misalignment and breaking up of the southbound carriageway S7 joint. Parts of the verges have broken up and cracks are present within the east verge and central reservation.</p> <p>Expansion/saw-cut joints: The previous Principal Inspection recorded that most of the joints are leaking, as indicated by damp areas on the abutment ballast wall, bearing shelves and soffits of some diaphragms. All of the Maurer joints have corrosion on their rails and silt on the elastomeric inserts. Sealant is missing from numerous joints.</p> <p>Parapets: The previous PI noted areas of corrosion are present on both, particularly at welds and expansion joints. There are areas of corrosion localised to the ends of the panels and on the posts. It was also recorded that some terminations are not connected to the parapets.</p> <p>Signage: The previous PI recorded corrosion is present on the sign post base plates.</p> <p>Lighting: The last PI observed that neither of the lighting units attached to S14 are working. The lighting column base plates and fixings have corrosion on them.</p>
Structures Principal Inspection	28/02/2017	<p>Foundations: There are no signs of movement or settlement.</p> <p>Piers: Are generally in good condition, with the exception of: Non-structural cracks; areas of delamination within the bearing shelf, crosshead and both columns of S15; damp areas, pigeon droppings and silt on the bearing shelf of S15; and non-offensive graffiti on the columns of S11, S10 and S9.</p> <p>South abutment: Has been extensively repaired since the previous inspection</p>

		<p>and is in good condition. Pigeon droppings and silt deposits are present on the bearing shelf. Areas of delamination and minor spalls are present within the ballast wall. The curtain walls exhibit rust staining, but there is no delamination. Wing walls: Are generally in good condition, with the exception of non-structural cracks.</p> <p>Bearings: Most are functioning as intended; however, some of the fixings for the east set of guided bearings above S14 are either not engaged or loose and gaps are present at the deck interface. All of the bearing plates and fixings are affected by a varying degree of corrosion. Some of the elastomeric bearings above S5 and S11 have debonded from the deck or the bearing shelf. Some of the bearing plinths above S15 exhibit cracks that are accompanied by delamination and spalling. At piers where the elastomeric bearings are fixed, some of the dowels are not present at the edge beam bearings</p> <p>Main beams: All are affected by corrosion; the worst areas are present on the ends. Most of the temporary works fixings exhibit corrosion and one set of fixings through beam 4 of span S11-S10 is loose. Beams 4 and 5 for spans S16-S15 & S15-S14 are affected by pigeon droppings. Beam 2 for span S11-S10 exhibits minor deformation.</p> <p>Diaphragms: Are generally in good condition, except for delamination, spalling and cracks. Some of the areas of delamination and spalling are isolated but others are commonly located at the joints above the supports.</p> <p>Slabs: Are generally in good condition, with the exception of areas of delamination and spalling at the longitudinal joint, next to through deck drainage pipes and drainage fixings: locations susceptible to moisture ingress. Cracks are present within the deck soffit and parapet beams.</p> <p>Drainage: The drainage systems carrying surface water are generally functioning as intended, except for a couple of leaking connections. Most of the steel drainage components and fixings exhibit corrosion, especially the hangers. Parts of the guttering fixed to the south abutment, S15 and S14 are either blocked with pigeon droppings, pigeon carcasses and silt or full of water. Most of the through deck drainage pipes are dry and the pipes showing signs of activity are partially blocked. Some of the drainage system components and fixings are displace, loose or missing. Pigeon droppings are present on some drainage pipes.</p> <p>Waterproofing: The deck soffits are generally dry, with evidence of historical leakage only.</p> <p>Surfacing: There is misalignment and breaking up of the southbound carriageway S7 joint. Parts of the verges have broken up and cracks are present within the east verge and central reservation.</p> <p>Expansion/saw-cut joints: Most are leaking, as indicated by damp areas on the abutment ballast wall, bearing shelves and soffits of some diaphragms. All of the Maurer joints have corrosion on their rails and silt on the elastomeric inserts. Sealant is missing from numerous joints.</p> <p>Parapets: Areas of corrosion are present on both, particularly at welds and expansion joints. There is an area of impact damage to the east parapet and this has been reported.</p> <p>Safety fencing: There are areas of corrosion localised to the ends of the panels and on the posts. The terminations are not connected to the parapets.</p> <p>Signage: Corrosion is present on the sign post base plates.</p> <p>Lighting: Neither of the lighting units attached to S14 are working. The lighting column base plates and fixings have corrosion on them.</p>
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Structures General Inspection	24/09/2014	<p>Foundations: There is no evidence that would suggest the presence of foundation defects.</p> <p>Piers: There are 11 piers in total all of which have been reconstructed or subject to concrete repairs; they are generally in good condition with only minor defects noted, some graffiti is present.</p> <p>South Abutment & Wing Walls: The south abutment and wing walls have been subject to concrete repairs and are in good condition.</p> <p>Approach Embankments: The approach embankments at S16 and between S14 & S5 are generally free of excess vegetation and fly tipping. Some litter is present.</p> <p>Bearings: Bearings were not inspected however the 2010 principal inspection report noted that the bearings were functioning satisfactorily.</p> <p>Main Beams: The main beams were not inspected but the 2010 principal inspection report noted that the main beams were free of serious defects.</p> <p>Diaphragms: The diaphragms are were reported in the 2010 principal inspection as being in generally good condition with no serious defects.</p> <p>Concrete Slabs: The concrete slabs were reported in the 2010 principal inspection as being in generally good condition with no serious defects.</p> <p>Drainage: The drainage systems are generally satisfactory however there are indications that some carrier drain joints suffer from minor leaks.</p> <p>Waterproofing: There is no evidence to hand that would suggest that the waterproofing is not functioning satisfactorily.</p> <p>Surfacing: The A19 carriageway surfacing is generally in good condition.</p> <p>Service Ducts: There are no statutory undertakers that have services on the structure although cable ducts are present for street & sign lighting.</p> <p>Expansion Joints: The transverse expansion joints are generally in good condition. The longitudinal joint allows some seepage.</p>
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		<p>Parapets: The protective treatment system to the parapets is deteriorating however the parapets are the subject of ongoing maintenance.</p>
Structures General Inspection	01/05/2013	<p>Foundations There is no evidence to suggest the presence of foundation defects.</p> <p>Piers There are 11 piers in total all of which have been reconstructed or subject to concrete repairs; they are generally in good condition with only minor defects noted.</p> <p>South Abutment & Wing Walls The south abutment and wing walls have recently been refurbished.</p> <p>Approach Embankments The approach embankments at S16 and between S14 and S5 have been subject to some improvements to allow for maintenance access.</p> <p>Bearings Bearings were not inspected but were reported in the 2010 principal inspection as functioning satisfactorily, also reported was the presence of some bearing plate minor corrosion.</p> <p>Main Beams The main beams are free of serious defects and the remedial patch paintwork carried out during 2001 appears to be performing well.</p> <p>Diaphragms The diaphragms were reported in the 2010 principal inspection as being generally in good condition with no serious defects.</p> <p>Concrete Slabs The concrete decks were reported in the 2010 principal inspection as being generally in good condition.</p> <p>Drainage Some drainage maintenance and repairs have recently been undertaken, particularly with regard to carrier pipe leaks.</p> <p>Waterproofing There is no evidence to hand that would suggest that the waterproofing is not functioning correctly.</p> <p>Surfacing The A19 carriageway surfacing is in good condition.</p> <p>Expansion Joints The expansion joints are generally in good condition.</p> <p>Parapets The protective treatment system to the parapets is deteriorating however the</p>

		<p>parapets are subject to ongoing repair and maintenance.</p> <p>Safety Fencing The safety fencing in the central reservation is supported by steel posts; some defective welding has been noted at the baseplates in the past and the posts are the subject of an ongoing replacement programme.</p> <p>Lighting A structural integrity test to lighting columns positioned in the central reservation and elsewhere was carried out during 2012, all of the columns proved structurally satisfactory.</p>
Structures Principal Inspection	01/11/2010	<p>Foundations: There is no evidence that would suggest the presence of foundation defects.</p> <p>Piers: There are 11 piers in total all of which have been reconstructed or subject to concrete repairs; they are generally in good condition with only minor defects noted.</p> <p>South Abutment & Wing Walls: The south abutment suffers from delaminations & other defects (repairs underway 2012). The wing walls are generally in good condition.</p> <p>Approach Embankments: The approach embankments at S16 and between S14 & S5 are free of significant defects however some areas suffer from litter.</p> <p>Bearings: All of the bearings appear to be functioning satisfactorily. Bearing plates suffer from minor corrosion.</p> <p>Main Beams: The main beams are free of serious defects & the remedial patch paintwork carried out during 2001 is generally performing well. Isolated areas of corrosion & staining are largely restricted to the ends of beams at bearings & some universal flange toes.</p> <p>Diaphragms: The diaphragms are generally in good condition with no serious defects, minor cracking is evident & some staining is present where seepage at joints is occurring.</p> <p>Concrete Slabs: The concrete decks are generally in good condition. Deck soffits all exhibit hairline cracking & cantilever upstands all exhibit transverse cracking sometimes with leachate. Some isolated soffit staining, delaminations & spalls were noted & these tended to be adjacent to Honel deck drainage outlets.</p> <p>Drainage: The drainage system that removes the carriageway surface water appears to be working satisfactorily; surface water is collected by kerbside gullies & transported via catchpits along carrier drains that discharge through the abutment at S16 into the highway drainage system. Some defects were noted along the carrier drains in particular corrosion occurring to the ductile iron fittings owing to the carrier drains being positioned generally directly under the subsurface drainage Honels. Subsurface drainage appears to be working satisfactorily; as noted above the Honel outlets are discharging water collected at deck waterproofing level over the carrier drain below. The pier crosshead bearing shelves are waterproofed, the waterproofing is flashed over crosshead</p>

		<p>perimeter gutters & any seepage through the deck joints above discharges via downpipes attached to pier legs into a below-ground level drainage system. There is some evidence to suggest that the drainage system below ground level may, at some piers, be blocked or partially blocked. Many of the pier crosshead ends exhibit significant staining; this appears to be owing to seepage from the ducts containing the street lighting cables that are positioned in the verges.</p> <p>Waterproofing: There is no evidence to hand that would suggest defects noted in the deck slab or edge beams are significantly affecting, or resulting from, the present condition of the waterproofing.</p> <p>Surfacing: The A19 carriageway surfacing is generally in good condition.</p> <p>Service Ducts: There are no statutory undertakers that have services on the structure although cable ducts are present for street & sign lighting.</p> <p>Expansion Joints: The transverse expansion joints are generally in good condition. The longitudinal joint allows some seepage.</p> <p>Parapets: The protective treatment system to the parapets is deteriorating. There are areas of corrosion evident particularly at fixings & some evidence of rails corroding internally. Additionally, testing has revealed deficiencies in the butt welding carried out when the parapet rail expansion joints were installed.</p> <p>Fencing: The safety fencing in the central reservation is supported by steel posts; some defective welding has been noted at the baseplates in the past & the posts are the subject of an ongoing replacement programme.</p> <p>Lighting: A structural integrity test to lighting columns positioned in the central reservation was carried out & any defective lighting columns were replaced during 2005.</p>
Structures General Inspection (BE11)	01/06/2009	<p>Item 4: Minor concrete repairs to S15 delaminations and S8/S9 fire damage. Remove graffiti. Item 5: Extensive concrete repairs, to include drainage and waterproofing upgrade. Item 8: Remove litter, monitor scour channels. Item 12: Localised concrete repairs. Item 13: Concrete repairs to damaged and chloride contaminated areas. Item 19: Repair Honels and hangers where necessary. Item 20: Seal Honels where possible; clear road gulleys. Item 21: Patch repairs adjacent to joints; reseal road joints. Item 23: Repair leaking joints. Item 24: Repaint parapets. Item 32: Connect safety fences to parapets; replace posts and rails when deemed necessary. Item 32 - DBFO Safety Fences 1 - B & C & M A19 safety fences not connected to parapet. A66 TCBs and OBBs corroded on back faces, some post corrosion. Debris within OBBs. Loose TCB tensioning bolts.</p>

Structures General Inspection (BE11)	31/07/2007	<p>Item 32 - DBFO Safety Fences - 1D3CM - A19 safety fences not connected to parapets. Corrosion of TCB south verge of A66. Some corrosion OBB A66 central reserve. Loose tension bolts A66 TCB.</p> <p>Item 4 - Minor repairs to S15 and to fire damage, S8, S9. Remove graffiti.</p> <p>Item 5 - Extensive repairs, drainage, waterproofing.</p> <p>Item 8 - Remove debris, litter, monitor scour.</p> <p>Item 9 - Repair S15 bearing plinths S15 (2005 PI).</p> <p>Item 10 - Local paint repairs.</p> <p>Item 12 - Local concrete repairs.</p> <p>Item 13 - Concrete repair, contaminated, damaged areas including longitudinal joint above A66, span S7-S9, & at Honels.</p> <p>Item 19 - Reconnect hanger. Realign Honels. Extend pier drainage. Check South to East road drainage.</p> <p>Item 20 - Monitor/repair seepage, S11 south diaphragm.</p> <p>Item 21 - Verge repairs.</p> <p>Item 23 - Repair leaking joints.</p> <p>Item 24 - Repairs to damaged areas (WO E10225). Repaint parapets.</p> <p>Item 32 -Connect A19 safety fences to parapets. Replace corroded safety fencing on A66. Re-tension bolts.</p> <p>General routine maintenance.</p>
Structures Principal Inspection (BE11)	27/07/2005	<p>Item 32 - DBFO Safety Fences - B2CL - A19 safety fences not connected to bridge parapets. Loose tensioning bolts on A66 and SE slip safety fences. Slight corrosion on A66 central reserve safety fence.</p> <p>Item 4 - Concrete repairs to fire damage. Apply correct bridge numbers. Remove graffiti.</p> <p>Item 5 - Concrete repairs to contaminated areas.</p> <p>Item 8 - Remove debris and litter.</p> <p>Item 9 - Repair bearing plinths at S15.</p> <p>Item 10 - Local paint repairs.</p> <p>Item 12 - Local concrete repairs.</p> <p>Item 13 - Concrete repairs to contaminated areas particularly at longitudinal joint above A66 carriageways.</p> <p>Item 19 - Reconnect hanger. Realign honels.</p> <p>Item 23 - Repair leaking joints.</p> <p>Item 24 - Repairs to damaged areas. Repaint parapets.</p> <p>Item 32 - Coonect A19 safety fences to parapets. Tighten loose bolts.</p> <p>Note - unfilled drill holes on concrete elements of bridge.</p>
Structures General Inspection (BE11)	27/03/2003	<p>Item 2 - Increased security provision recommended. Item 4 - Pier S15 rehab. programmed. Minor repair to piers 8 & 9. Clean and silane, installation/extension of guttering recommended. Item 5 - Testing and repair, installation of improved drainage. Item 6 - Minor concrete repairs. Item 9 - Monitor pending pier rehab. Item 12 - Fit edge plates to tied joints, minor concrete repair. Item 13 - Minor concrete repair, esp. over A66 .</p>
Structures General Inspection (BE11)	23/03/2001	
Structures General Inspection (BE11)	14/03/1999	

Structures Principal Inspection (BE11)	14/03/1999	
Structures General Inspection (BE11)	04/02/1995	
Structures General Inspection (BE11)	28/03/1994	
Structures General Inspection (BE11)	21/04/1993	
Structures General Inspection (BE11)	13/04/1992	
Structures Principal Inspection (BE11)	13/04/1992	
Structures General Inspection (BE11)	31/01/1992	
Structures General Inspection (BE11)	01/07/1983	
Structures General Inspection (BE11)	01/11/1982	
Structures General Inspection (BE11)	01/10/1981	

3.2 Completed Assessments

No completed assessments were found for structure

Assessment Type	Assessment Date	Assessment Status	Assessment Description
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3.3 All Completed Maintenance Actions and Works Orders

WO ID	Maintenance Object	Maintenance Action	Start Date	Work Order Description
121488	General	Change Status	14/06/2018	Defects have been removed because they fall into one of the following categories: repairs have been undertaken; considered to be insignificant; probably arose during the construction phase; will be actioned under routine maintenance.

3.4 Additional Maintenance History

Maintenance

In addition to routine maintenance, parapet deterioration and accident repairs the following works have been carried out:

2005 - Resurfacing of A19 over bridge.

2003 - Concrete repairs to S15.

2001 - Maurer joints refurbished.

2001 - Touch-up painting to structural steelwork.

2000 - Honel outlet pipes extended to avoid contaminating beams and bearings.

1999 - Piers S12-S14 demolished and replaced. Bearings on these piers replaced.

1991 - 1996 Piers S6-S11 demolished and replaced.

1987-90 - Drainage system upgraded. Honels upgraded. Deck re-articulated with tied joints installed on alternate piers S7-S15. Bearing plinths reconstructed for new bearings. Concrete repairs to deck. Bridge deck re-waterproofed with Stirling Lloyd Eliminator. Parapets repainted with a five-coat epoxy system. Structural steelwork repainted with six coat chlorinated rubber system.

4. Constraints and Features

4.1 Constraints

No Constraints present

4.2 Features

The Road A19 (N N) goes Over Tees Viaduct S Abut -S5 headroom metres, headroom last checked , authority National Highways

The Service Electricity (N N) goes Not Applicable Tees Viaduct S Abut -S5 headroom metres, headroom last checked , authority Not Known

The Road A66 Uplink (N N) goes Under Span 15-14 headroom 6.51 metres, headroom last checked 10/05/2011 , authority National Highways

The Road Unclassified Uplink (N N) goes Under Span 12-11 headroom metres, headroom last checked , authority National Highways

The Road A66 Downlink (N N) goes Under Span 16-15 headroom 6.31 metres, headroom last checked 09/05/2011 , authority National Highways

5. Interim Measures

No interim measures present

6. Departures

No Departures present

7. Coating System for Steelwork

No Coating System for Steelwork recorded

8. Coating System for Concrete

No Coating System for Concrete recorded

9. Inventory

Intermediate Support S8	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 6-5
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S5	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 8-7
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S6	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 7-6
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S7	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 14-13
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S12	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 15-14
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Span	Span 11-10
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Span	Span 12-11
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S15	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span Span 16-15	
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

End Support S16 South Abutment	
Facing Material Type	None
Support Connection Type	Proprietary Elastomeric Bearings
Support Type - End Support	Cantilever Abutment

Span Span 9-8	
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S9	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span Span 10-9	
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support S13	
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Span	Span 13-12
Skew	0
Structural Form Type - Span	Beam/Girder - At/Below Deck Surface (underslung)
Min Square Width between Supports	19

Intermediate Support	S10
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Not Known
Cross Section Type	Not Known

Intermediate Support	S14
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

Intermediate Support	S11
Support Type - Intermediate Support	Concrete Frame
Support Connection Type	Proprietary Elastomeric Bearings
Cross Section Type	Not Known

LIG - Lighting	Lighting
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Substructure Drainage	Drainage
Substructure Drainage Type	Bearing Shelf

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

BRP - Bearing plinth or bearing shelf	Bearing Plinth
--	-----------------------

Wing Wall	East Wingwall
Length	13.5
Height	7
Anchoring System	None

Wing Wall	West Wingwall
Length	13.5
Height	7
Anchoring System	None

Abutment Wall	Abutment Wall
Facing Material Type	None
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Cantilever Abutment

Bearing	Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Date Installed	01/JAN/1975
Number of Bearings	9

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	6

Substructure Drainage	Drainage
Substructure Drainage Type	Bearing Shelf

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Leaf Pier or Column	Pier S5
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Slab Wall

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

Substructure Drainage	Drainage
Substructure Drainage Type	Bearing Shelf

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Substructure Drainage	Drainage
Substructure Drainage Type	Bearing Shelf

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	8

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	9

Substructure Drainage	Drainage
Substructure Drainage Type	Downpipe

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Date Installed	01/JAN/1975
Number of Bearings	9

COL - Column	East Column
---------------------	--------------------

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Date Installed	01/JAN/1975
Number of Bearings	9

Substructure Drainage	Drainage
Substructure Drainage Type	Downpipe

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	West Column
---------------------	--------------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
--	-----------------------

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	6

Substructure Drainage	Drainage
Substructure Drainage Type	Downpipe

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	6

COJ - Construction Joint	Carriageway Saw Cut Joint
Notes	
SMIS_SOURCE_ID	
Asset Description	

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	9

Substructure Drainage	Drainage
Substructure Drainage Type	Downpipe

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
---------------------	--------------------

COL - Column	West Column
---------------------	--------------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
--	-----------------------

Bearing North Bearing	
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	9

Leaf Pier or Column Leaf Pier Column	
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Substructure Drainage Drainage	
Substructure Drainage Type	Guttering

Bearing South Bearing	
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Substructure Drainage Drainage	
Substructure Drainage Type	Downpipe

Foundation Foundation	
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column East Column	
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COL - Column West Column	
--------------------------	--

Crosshead Crosshead	
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf Bearing Plinth	
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Bearing North Bearing	
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	6

Substructure Drainage	Drainage
Substructure Drainage Type	Guttering

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Bearing	South Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	9

Substructure Drainage	Drainage
Substructure Drainage Type	Downpipe

Foundation	Foundation
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column	East Column
--------------	-------------

COL - Column	West Column
--------------	-------------

Crosshead	Crosshead
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf	Bearing Plinth
---------------------------------------	----------------

Bearing	North Bearing
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	9

Leaf Pier or Column	Leaf Pier Column
Support Connection Type	Proprietary Elastomeric Bearings
Support Type	Concrete Frame

Substructure Drainage Drainage	
Substructure Drainage Type	Guttering

Bearing South Bearing	
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	8

Substructure Drainage Drainage	
Substructure Drainage Type	Downpipe

Foundation Foundation	
Foundation Type	Bored Cast-In-Place Piles >=600mm Dia.

COL - Column East Column	
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COL - Column West Column	
---	--

Crosshead Crosshead	
Length	20
Height	2
Width	1

BRP - Bearing plinth or bearing shelf Bearing Plinth	
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Bearing North Bearing	
Bearing Type	Elastomeric
Manufacturer - Bearing Product	C C L Systems Ltd - Elastomeric Laminated
Number of Bearings	7

Deck Deck	
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Deck	Deck
Date Constructed	01/JAN/1975
Length	19
Width	18
Structural Form Type - Deck	Simply Supported
Construction Type - Deck	Beam And Slab
Enclosure Present	N
Enclosure Type	Not Applicable

Carriageway Surfacing	Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Expansion Joint	S6 Joint
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

LIG - Lighting	Lighting
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Superstructure Drainage Surface Drainage	
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage Sub Surface Drainage	
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System C R Safety Fence	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Road Vehicle Restraint System	East Parapet
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Superstructure Drainage Surface Drainage	
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage Sub Surface Drainage	
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System C R Safety Fence	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing	Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Expansion Joint	S8 Joint
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

LIG - Lighting	Lighting
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Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing	Carriageway Surfacing
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Road Vehicle Restraint System	East Parapet
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System	C R Safety Fence
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

LNJ - Longitudinal joint	LNJ - Longitudinal joint
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Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing	Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Expansion Joint	S14 Joint
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System	C R Safety Fence
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

LIG - Lighting Lighting	
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Superstructure Drainage Surface Drainage	
Superstructure Drainage Type	Road/Verge Surface

LNJ - Longitudinal joint	LNJ - Longitudinal joint
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Slab Or Arch	Slab
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Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
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Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Carriageway Surfacing	Carriageway Surfacing
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Diaphragm	North Diaphragm
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Strengthening Type	None
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Diaphragm	South Diaphragm
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Strengthening Type	None
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Longitudinal Beam (set)	Longitudinal Beam
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Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
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Superstructure Drainage Type	Road/Verge Surface
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Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System	C R Safety Fence
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Longitudinal Beam (set) Longitudinal Beam	
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System C R Safety Fence	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

LIG - Lighting	Lighting
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Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

LNJ - Longitudinal joint LNJ - Longitudinal joint	
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Waterproofing	
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Expansion Joint	
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

Carriageway Surfacing	
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Slab Or Arch	
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Road Vehicle Restraint System C R Safety Fence	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

LNJ - Longitudinal joint	LNJ - Longitudinal joint
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Diaphragm	North Diaphragm
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Two Coat

Expansion Joint	S16 Joint
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System	C R Safety Fence
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set) Longitudinal Beam	
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing Carriageway Surfacing	
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System C R Safety Fence	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Carriageway Surfacing Carriageway Surfacing	
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Slab Or Arch Slab	
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing Waterproofing	
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing	Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Expansion Joint S10 Joint	
Date Installed	01/JAN/1988
Expansion Joint Type	Single Element Elastomeric In Metal Runners
Manufacturer - Joint Product	Maurer (Supp By Lossinger/Mageba) - D 60
Number of Joints	1

Superstructure Sub Surface Drainage	
Drainage	
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint C R Safety Fence	
System	
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System	West Parapet
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm	North Diaphragm
Strengthening Type	None

Diaphragm	South Diaphragm
Strengthening Type	None

LNJ - Longitudinal joint	LNJ - Longitudinal joint
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LIG - Lighting	Lighting
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Superstructure Drainage	Surface Drainage
Superstructure Drainage Type	Road/Verge Surface

Superstructure Drainage	Sub Surface Drainage
Superstructure Drainage Type	Road/Verge Sub Surface

Road Vehicle Restraint System	C R Safety Fence
Restraint Location	Central Reserve
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	Not Specified
Road Vehicle Restraint Form	Safety Barrier
Parapet Modification	Modification Status Unknown
Manufacturer - VRS	Not Known
Barrier Type	OBB post spacing 2.4m
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System East Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Road Vehicle Restraint System West Parapet	
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	Mesh Infill (M)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	P2(113)
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

Diaphragm North Diaphragm	
Strengthening Type	None

Diaphragm South Diaphragm	
Strengthening Type	None

Longitudinal Beam (set)	Longitudinal Beam
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Carriageway Surfacing	Carriageway Surfacing
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Slab Or Arch	Slab
Slab or Arch Type	Solid
Structural Form Type - Slab or Arch	Slab Flat
Strengthening Type	None

Waterproofing	Waterproofing
Date Installed	01/JAN/1988
Waterproofing Type	Liquid/sprayed
Manufacturer - Waterproofing Product	Stirling Lloyd - Eliminator Single Coat

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 9
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 8
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 9
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 8
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 8
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 9
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 8
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 9
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Longitudinal Beam (detail)	Longitudinal Beam 8
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 7
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 6
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 5
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 4
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 3
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 2
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	N

Longitudinal Beam (detail)	Longitudinal Beam 1
Strengthened	N
Strengthening Type	None
Beam Type	Solid
Beam Shape - Longitudinal Beam	I-beam
Edge Beam	Y

Bridge And Large Culvert	Tees Viaduct S Abut -S5
OffNetworkLocation_Description	
Point X	447470
Point Y	518900
Effective Loading	
Carriageway	Not Set
Verge	Not Set
Carriageway (HB)	Not Set
SV Rating	Not Set
Signed Weight Restriction	Not Known (INVALID OPTION)
Environmental Restriction	No
Restriction Remarks	
Route Requirements	
Steady State Assess Priority Category	
Steady State Assess Priority Category Remarks	
Orig Design Loading	HA + 45 HB
Orig Design Date	
Orig Design Standard	Not Applicable

Remedial Design Loading	Not Applicable
Remedial Design Date	
Remedial Design Standard	Not Applicable
Load Management Comments	
Notes	
SMIS_SOURCE_ID	
Structure Status	Constructed
Date Constructed	01/JAN/1975
Date Confirmed As-Built	
Date Commissioned	01/JAN/1975
Date Confirmed Commissioned	
Geographical Area	Middlesbrough
Network Status	Trunk, Core
Region	Yorkshire & North-East
Structure Creation Type	Legacy
Ma Ref	00540
Scour Susceptible	N
DBFO	Y
Maintaining Agent	Autolink (Dbfo)
Designer	Dobbie Sandford And Fawcett And Partners
Owner	National Highways
Custodian	DBFO
PIN Code	
Date Pin Code Effective	
PI Frequency	6
PI Frequency Reason	
Inspection Regime	Standard inspection regime (6-year PI cycle)
Date First PI Due	
Date Next GI Due	01/JUN/2013
Date Next PI Due	01/JAN/1900
Articulation	The deck is simply supported on elastomeric bearings. Longitudinal fixity is provided at the south end of each pair of spans, the piers having separate bearings for each span. There are steel guide bearings, manufactured by CCL, on piers S12 and S14 to prevent lateral movement of the deck on spans where there is a longitudinal joint.

Additional Maintenance History	<p>Maintenance</p> <p>In addition to routine maintenance, parapet deterioration and accident repairs the following works have been carried out:</p> <p>2005 - Resurfacing of A19 over bridge.</p> <p>2003 - Concrete repairs to S15.</p> <p>2001 - Maurer joints refurbished.</p> <p>2001 - Touch-up painting to structural steelwork.</p> <p>2000 - Honel outlet pipes extended to avoid contaminating beams and bearings.</p> <p>1999 - Piers S12-S14 demolished and replaced. Bearings on these piers replaced.</p> <p>1991 - 1996 Piers S6-S11 demolished and replaced.</p> <p>1987-90 - Drainage system upgraded. Honels upgraded. Deck re-articulated with tied joints installed on alternate piers S7-S15. Bearing plinths reconstructed for new bearings. Concrete repairs to deck. Bridge deck re-waterproofed with Stirling Lloyd Eliminator. Parapets repainted with a five-coat epoxy system. Structural steelwork repainted with six coat chlorinated rubber system.</p>
Asset Class	Structures
Asbestos Status	Presume ACM Present Until Confirmed Otherwise
Maintenance Area	Area 26 (Dbfo)
StructureWarning	<p>WARNING: Active Inspection Activity</p> <p>Changes to the inventory data within the asset will be overwritten when the inspection is authorised.</p> <p>Please make inventory data changes from within the activity or wait until the inspection has been completed.</p>
Is Pre-Migrated Structure	N
Heavy Load Route	N
High Load Route	N
Road	A19
Junction Number	
Kilometerage	131
Within scope of BD 101	Y
Bridge Type	Elevated Road - Underbridge
Construction Type - Bridge	Composite
Length	239.6
Bridge Tensioning Type	Not Tensioned
Number of Spans	11
Date Modified	

Asset Description	<p>The Tees Viaduct South Abutment to Pier S5 including the South Approach forms the southern section of the Tees Viaduct and carries the A19 across the A66, the South to East Stockton Road I/C Slip Road and open land as far as Pier S5.</p> <p>The Tees Viaduct was designed by Dobbie, Sandford Fawcett & Partners and was commissioned during November 1975.</p> <p>This section of the Tees Viaduct is comprised of eleven simply supported deck spans, each measuring approximately 22m, between the south abutment and pier S5 having a total length of 238.7m.</p> <p>The decks are constructed of universal beams composite with in-situ reinforced concrete slabs and rest on elastomeric bearings positioned on the south abutment and 11 piers numbered S15 to S5 inclusive, the deck slabs are tied together in pairs at piers S15, S13, S11, S9 and S7 and fixed to these piers.</p> <p>The south abutment and piers are all constructed using cast in-situ reinforced concrete and are founded on 610mm diameter reinforced concrete bored piles.</p> <p>The carriageways south of the south abutment are laid on compacted sub base on constructed earthworks.</p>
2.2 PAWRRECW - Remove Graffiti	Y
2.2 PAWRRECW - Remove Vegetation	Y
2.2 PAWRRECW - Clear debris from bearing shelves	Y
2.2 PAWRRECW - Clean drainage channels	Y
2.2 PAWRRECW - Rod outlet pipes and check operation	Y
2.2 PAWRRECW - Clear drainage outlet manhole chambers	Y
2.2 PAWRRECW - Rod weep pipes and remove silt and debris	Y
2.2 PAWRRECW - Check operation and grease flap valves	
2.2 PAWRRECW - Repair gap sealant to movement joints	Y
2.2 PAWRRECW - Check pedestrian protection measures	Y
2.2 COL - Remove graffiti	Y
2.2 COL - Remove debris and bird droppings	Y

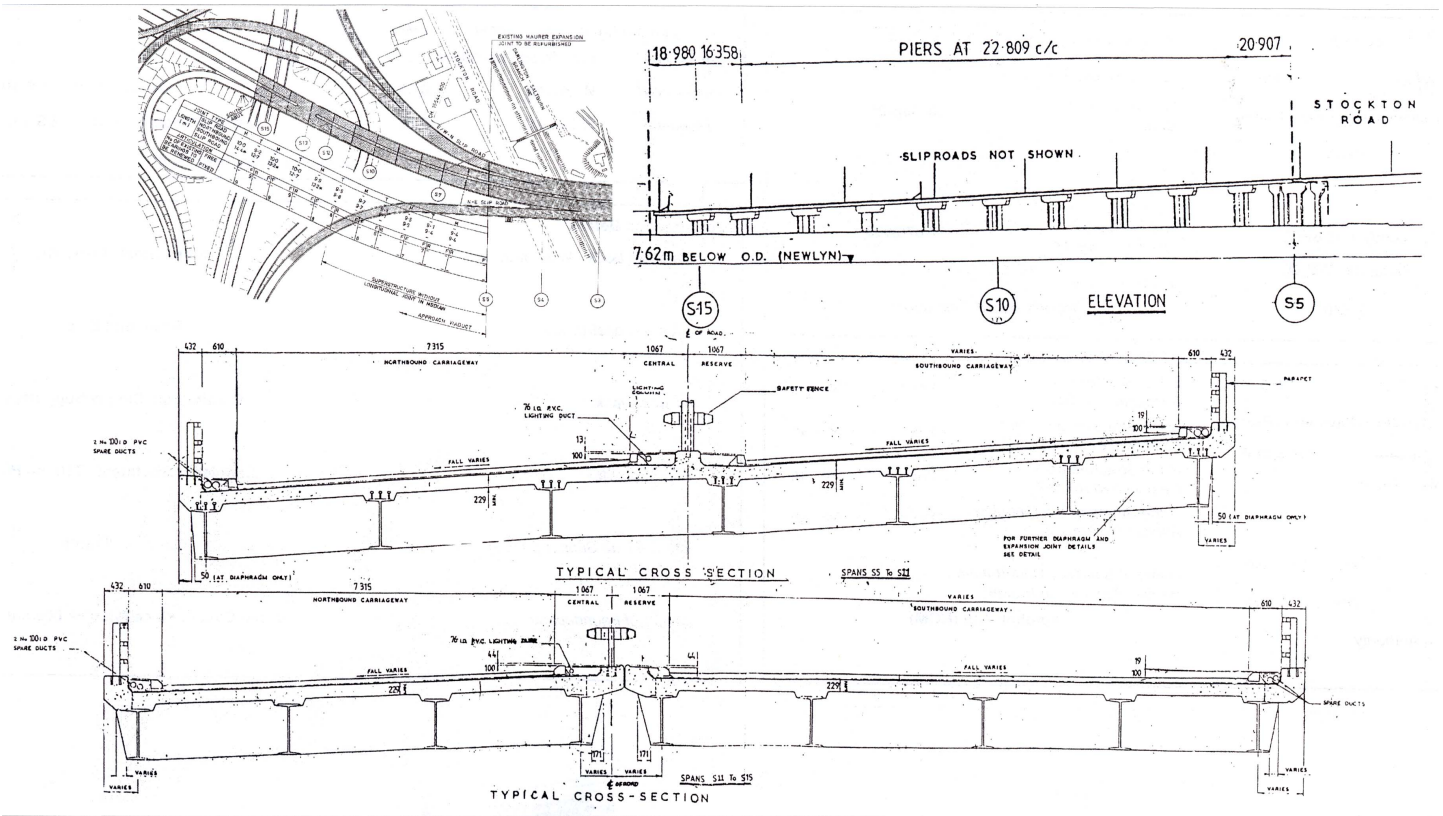
2.3 SBGTCTBF - Remove graffiti	
2.3 SBGTCTBF - Remove debris and bird droppings from flanges	Y
2.3 SBGTCTBF - Clear drainage holes for box sections	
2.3 DCVPC - Remove grass and weeds from verges and channels	Y
2.3 DCVPC - Repair gap sealant to movement joints	Y
2.4 EJ - Clean out debris and vegetation	Y
2.4 EJ - Clear drainage systems	Y
2.4 EJ - Check and tighten or replace nuts and bolts	Y
2.4 EJ - Replace gaskets	Y
2.3 DD - Rod outlet pipes and below deck systems	Y
2.4 MP - Check and tighten or replace nuts and bolts	Y
2.4 MP - Clear hollow section drain holes	Y
2.4 MCP - Remove Graffiti	
2.4 MCP - Remove Vegetation	
2.4 BEA - Remove general dirt and debris	Y
2.4 BEA - Clean and regrease sliding roller surfaces	Y
2.5 SUB - Remove Graffiti	
2.5 SUB - Clear drainage channels	
2.5 SUB - Clean Rod drainage outlets	
2.5 SUB - Check and replace drainage gratings and covers	
2.5 SUB - Repair gap sealant to movement joints	
2.5 SUB - Check and clean security mirrors	
2.6 CUL - Remove vegetation and debris from within	
2.6 CUL - Remove flow restricting build-up	

2.6 CUL - Repair gap sealant to movement joints	
2.7 SSGHMCL - Tighten holding down bolts	
Other Tasks to be carried out	
Condition Performance Indicator	
Project Attributes	
Latitude (Dec)	54.563112
Longitude (Dec)	-1.2674
Latitude (DMS)	54° 33' 47.203038" N
Longitude (DMS)	1° 16' 02.641767" W

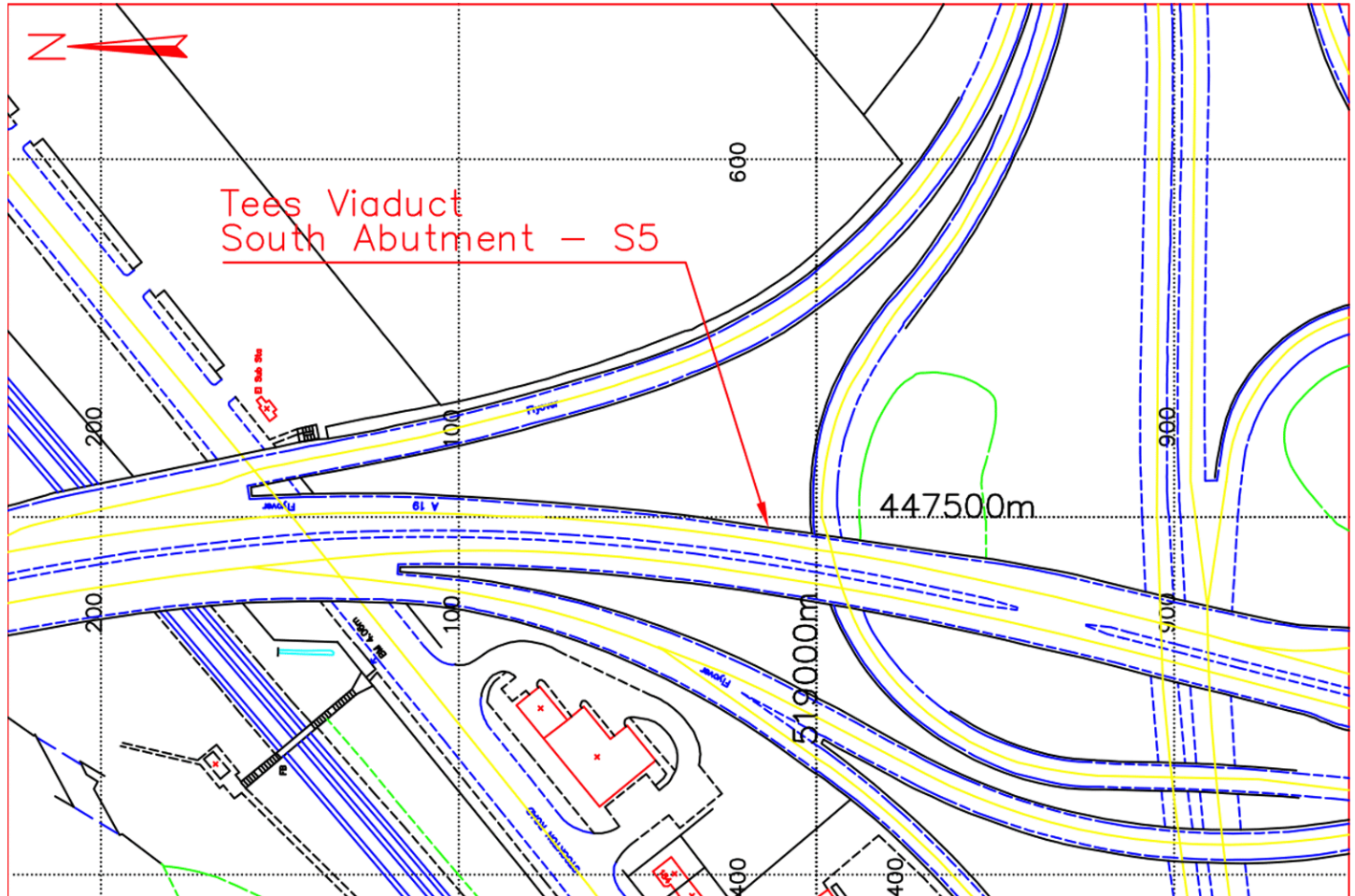
10. General Photograph



11. Elevation Drawing



12. Map



13. 1:50,000 Map

