General Inspection Report



Structure Name:	FINCHINGFIELD
Identifier:	26
Financial Year:	2022/23
Planned Inspection Date:	15/07/2022
Inspection Date:	15/07/2022
Inspector:	
Submitted Date:	07/10/2022
Report Status:	Approved
Report Status: Submission Count:	Approved
Submission Count:	1
Submission Count: BCI Average:	85.78

Inspection Type: Structure Name:

General Inspection Report FINCHINGFIELD

Inspection Date: Identifier:

15/07/2022

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[No additional inspection documents found. To add aditional inspection documents upload the document to the inspection folder on BridgeStation's file system]



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I Inspection Report Inspection Date:
NGFIELD Identifier:

Structure Summary

Name:FINCHINGFIELDIdentifier:26Element Hierarchy Status:CompliantStructure Type:BridgeCarried:THE CAUSEWAYBPRN Structure:NoCrossed:FINCHINGFIELD .

Authority:Essex County CouncilRestrictions:[None]

Owner: ECC (Essex Highways) Assessment Status: 31/03/2010 (BD21: Initial Assessment)

 Maintaining Authority:
 ECC (Essex Highways)
 Assessed Capacity:
 10 t

 HB Rating:
 0 Units

Easting/Northing: 568462, 232837

Year of Construction: 1800

No. of Spans: 1 **Latest Inspection:** SUI - 11/08/2022

Primary Deck Form:01 - Arch (solid spandrel)BCI Average (Latest Condition):85.78Primary Deck Material:Multiple Primary MaterialsBCI Critical (Latest Condition):58.00

Structure Condition Index Key:
 Very Good
 Good
 Fair
 Poor
 Very Poor

 >=90 & <=100</td>
 >=80 & <90</td>
 >=65 & <80</td>
 >=40 & <65</td>
 >=0 & <40</td>

Last Data Change: Structure Details

Description:

Finchingfield Bridge (OSGR TL 684 328) is a single span arch structure. The original brick arch (0.33m thick arch barrel) was extended in 1912 by adding a 1.65m wide concrete arch (0.7m thick) on the downstream (south side); the arches have clear spans of approximately 4.3 m. There are two tie rods spanning transversely through the structure, tying the barrels of the original brick arch and the concrete extension together.

The abutments are of brick construction but the foundation details are unknown. The wingwalls either side of the bridge extend a considerable distance beyond the abutments. The northwest and southeast wingwalls are of brick construction and the southwest wingwall is a brick-faced reinforced concrete wingwall founded on a reinforced concrete base slab that extends 1.5m into the pond. The north bridge parapet is of brick construction and the south parapet is a brick-faced reinforced concrete parapet dowelled into the concrete deck. On the northeast side of the bridge, there is no wingwall and the parapet directly butts against an adjacent building belonging to G. W. Hardy and Son Funeral Directors.

The clear width between parapets of the bridge is 3.82m, which is sufficient for single way traffic only; there is no footway provision over the bridge. Due to the narrow width of the bridge, the parapets and the adjoining building have been struck by vehicles on a number of occasions.

The brick arch has been assessed in accordance with BD 21 and has been found to have assessment capacities of 13 tonnes GVW (modified MEXE analysis) and 3 or 10 tonnes (LimitState Ltd); the alternative ratings indicated by the LimitState assessments depend on whether the arch barrel and fill act in a composite manner.

Comments: Structures Hierarchy: STR 2

Map:



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Summary Photographs:



20210818_132844.jpgSouthern Elevation



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Identifier:

CSS Inspection Proforma

Inspection Details

Inspection Type: Structure Name:

General **Financial Year:** 2022/23 Inspection Type: 15/07/2022 Inspector: **Inspection Date:**

Risk Assessment Reviewed and Updated:

Photographs: Yes All Above Ground Elements Inspected:

Inspection carried out on foot. Water level up to 0.5m and all areas accessible on

day of inspection.

Special Instructions:

Inspection Methodology:

Inspection Condition			
Condition	Index	Score	Rating
Average (15/07/2022)	87.87	1.66	Good
Critical (15/07/2022)	58.00	3.00	Poor

Note: Index, Score and Rating are given up to the date of inspection. Previous conditions are used where required to produce a set of conditions based on as many elements as possible.

Average and Critical Conditions labelled 'Projected' need to be confirmed by signing off the inspection before they are shown elsewhere.

Inspection Signatures

Engineer's Comments By:

Inspected By: Inspector's Comments By: Checker's Comments By:

Inspection Sign-	off History				
Change Date	User Name	Action	Old Status	New Status	Comments
07/10/2022		Inspection submitted	Draft	Submitted	

Structure Details			
Bridge Name:	FINCHINGFIELD	Identifier:	26
Authority:	Essex County Council	Structure Type:	Bridge
Owner:	ECC (Essex Highways)	Easting:	568462
Maintaining Authority:	ECC (Essex Highways)	Northing:	232837
Overall Structure Length (m):	4.89	Average Width (m):	1.63

Dimension Details:

Span Name	Qty	Span Length (m)	Max Width (m)	Min Width (m)	Internal Headroom (m)	Measured Headroom (A) (m)	Signed Headroom (A) (m)	Measured Headroom (B) (m)	Signed Headroom (B) (m)
FINCHINGFIELD - Span 1	1	4.30	1.63			1.80			

Construction Details:

Span/Wall/Gantry	Construction	Form/Material
FINCHINGFIELD - Span 1-26/42606/01 - Brickwork	Primary Deck (Primary Deck - Concrete)	01 - Arch (solid spandrel) / Insitu Reinforced Concrete
FINCHINGFIELD - Span 1-26/42606/01 - Brickwork	Primary Deck (Primary Deck - Masonry)	01 - Arch (solid spandrel) / Brickwork

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General View Photographs



South ElevationGeneral View Photos



North Elevation General View Photos

Inspection Type: General Inspection Report
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Above Structure - Facing West

General View Photos

Approved

Report Status:

Submission Count:

Element Conditions

FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

LINC	HINGFIELD - Span 1-20/42000/01 - Brickwork							
Deck	Elements							
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k	
1	Primary Deck - Masonry	2	Е	3.6		L		

Comment

- Minor weathering affecting approximately 60% of brick faces.
- There are multiple historic mortar repairs which are generally in good condition.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
1	Primary Deck - Masonry	3	В	3.6		М	

Comment

At the Northern end of East Haunch, patch of moderately weathered brickwork ($1m \times 0.25m$) with 1no. missing brick to arch ring.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k	
1	Primary Deck - Concrete	1	Α	0				

Comment

Concrete arch is generally in good condition. However, 2no. lengths of rebar have been left protruding from northern side of deck.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
5	05/Tie beam/rod	1	Α	0			
Comm	nent						
Only T	ie Rod end plates were visible for inspection were generally in good condition.						

Remedial Works

[none]

Load-	bearing Substructure						
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
8	Foundations	1	Α	0			

Comment

The foundations were not visible for inspection. There were no signs of distress that signify fault to the foundations.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
9	09/Abutments(inc.arch spring)	2	В	3.6		L	

Comment

The abutments were mostly below water level on day of inspection with only 300mm exposed.

- Exposed abutments showed few small isolated patches of weathered brick work
- Concrete finish at South west (under concrete arch) has failed. Revealed brickwork is in good condition.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k	
10	10/Spandrel wall/head wall	1	Α	0				

Comment

Spandrels' are generally in good condition. North Spandrel appears to have been rebuilt and is in good condition.

Remedial Works

[none]



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No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
10	Buttress	3	С	3.6		М	
Comn	nent						
Datie D	holden and a bank of a selection of the fact of the selection of the selec						

Both Buttresses had moderate weathering to brickwork.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
10	Buttress	4	В	5.1		Н	

Comment

Weeds/ Shrub growing from South West buttress. Plant is Buddleia (Butterfly Bush) and will likely contribute to deterioration of brickwork.

Remedial Works

Remove vegetation and prevent from further growth.

Durab	ility Elements						
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
17	17/Water proofing	2	С			L	
Comm	ent						
throug	proofing is unlikely to be present over arch. All elements were dry on day of inspection herickwork evident in leachate and calcite deposits on brick faces. dial Works	on. How	ever, hi	storic seepag	je		
[none]							

Safety	Elements						
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
23	23/Handrail/parapet/saf.fences	3	С	3.2		M	

Comment

- South parapet has moderate loss of pointing to lower courses of inside face.
- Minor deterioration of pointing to lower courses of brickwork on inside face of parapet.

Remedial Works

Repoint Parapet.

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
23	23/Handrail/parapet/saf.fences	3	С	13.1		M	

Comment

- West end of inside face has suffered impact causing moderate gouges and spalls to brickwork.
- East end of inside face has suffered impact causing gauges to brickwork and 2.4m of coping brickwork now missing.
- At North East corner, several bricks were missing to soldier course, likely caused by a vehicle impact.

Remedial Works

Brickwork repairs to be carried out to parapets.

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
24	24/Carriageway surfacing	1	Α	0			

Comment

Carriageway is in good condition.

Remedial Works

[none]

Other	Bridge Elements								
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k		
26	26/Invert/river bed	2	В	7.1		L			
Comn	Comment								
Minor	Minor patch of scour 300mm^2 located at north west corner, 190mm in front of abutment, Scour patch has a 150mm								

Minor patch of scour 300mm^2 located at north west corner, 190mm in front of abutment. Scour patch has a 150mm difference in depth to surrounding area.

Remedial Works

[none]



								_
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k	
27	27/Aprons	1	Α	0				

Comment

The aprons were in good condition.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
31	31/Wing walls	3	С	3.6		М	

Comment

South East wingwall had areas of moderate erosion to brickwork, reaching depths up to 35mm.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
31	31/Wing walls	3	В	3.2		М	

Comment

Moderate loss of pointing up to depths of 40mm in a 0.5 m x 1m area.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
31	31/Wing walls	3	В	5.1		Н	

Comment

Weeds/ Shrub growing at end of South West wingwall/ retaining wall. Shrub is most likely Buddleia (Butterfly Bush) and could potentially contribute to deterioration of brickwork.

Remedial Works

Remove vegetation and prevent from further growth.

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k	
31	31/Wing walls	2	В	3.5		L		

Comment

South East wingwall had a historic vertical crack extending 1.7m (full height including both sides of wingwall parapet), open 1mm to 1.5mm.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
32	32/Retaining walls	1	Α	0			

Comment

South West Wingwall/ Retaining Wall is generally in good condition. Vegetation growing from wall as raised under Wingwall.

Remedial Works

[none]

No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
33	Embankments	1	Α	0			

Comment

The embankments were in good condition.

Remedial Works

[none]

Ancil	lary Elements								
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k		
35	35/Apprch rails/barriers/walls								
Com	Comment								
The a	pproach rail was generally in good condition.								
Reme	Remedial Works								
[none]								

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General Inspection Report **Inspection Date:** 15/07/2022 **Inspection Type:** Structure Name: FINCHINGFIELD Identifier:

Archive

Deck Elements No **Element Name** Sev Ext Defect Works **Priority** Cost £k 0 П Primary Deck - Concrete (Archived on 07/10/2022)

Comment

[none]

Remedial Works

[none]

Load-	bearing Substructure						
No	Element Name	Sev	Ext	Defect	Works	Priority	Cost £k
8	08/Foundations (Archived on 07/10/2022)	1	Α	0			

Comment

The foundations were not visible for inspection. There were no signs of distress that would suggest defects to the foundations.

Remedial Works

[none]

Inspector's Comments:

Please tick here if you believe that span length, span width and/or form of construction needs reviewing by the bridge manager. Please include appropriate comments in inspection comment section below

Structure is in fair condition.

 $\label{lem:delays} \mbox{ Delays in submitting inspection report delays in rectifying element errors on BridgeStation.}$

Inspector's Name:

Checker's Comments:

Checker's Name:

Engineer's Comments:

In generally Fair condition, but no significant change from previous inspections.

Scheme underway to rebuild the structure in coming years

Engineer's Name:



Approved

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Defect View Photographs

FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Deck Elements



West Haunch

- Minor weathering affecting approximately 60% of brick faces.
- There are multiple historic mortar repairs which are generally in good condition.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
1	Primary deck element (Table 2)	Primary Deck - Masonry	2	Е	3.6	L	N	

Comment Remedial Works

- $\,$ Minor weathering affecting approximately 60% of brick faces.

- There are multiple historic mortar repairs which are generally in good condition.

[none]



East Haunch

- Minor weathering affecting approximately 60% of brick faces.
- There are multiple historic mortar repairs which are generally in good condition.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
1	Primary deck element (Table 2)	Primary Deck - Masonry	2	E	3.6	L	N	

Comment Remedial Works

- $\,$ Minor weathering affecting approximately 60% of brick faces.

- There are multiple historic mortar repairs which are generally in good condition.

[none]



FINCHINGFIELD - Span 1-26/42606/01 - Brickwork





East Haunch, Northern End - Moderate Weathering to Brickwork

At the Northern end of East Haunch, patch of moderately weathered brickwork (1m \times 0.25m) with 1no. missing brick to arch ring.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
1	Primary deck element (Table 2)	Primary Deck - Masonry	3	В	3.6	М	N	

Comment Remedial Works

At the Northern end of East Haunch, patch of moderately weathered brickwork (1m \times 0.25m) with 1no. missing brick to arch ring.

[none]



Reinforced Concrete Arch

null

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
1	Primary deck element (Table 2)	Primary Deck - Concrete	1	Α	0		N	

Comment Remedial Works

Concrete arch is generally in good condition. However, 2no. lengths of rebar have been left protruding from northern side of deck.

[none]



FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Load-bearing Substructure



South West - Failure of Render Concrete finish at South West (under concrete arch) has failed. Revealed brickwork is in good condition.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
9	Abutments (inc arch springing)	09/Abutments(inc.arch spring)	2	В	3.6	L	N	

Comment Remedial Works

The abutments were mostly below water level on day of inspection with only 300mm exposed.

- Exposed abutments showed few small isolated patches of weathered brick work

- Concrete finish at South west (under concrete arch) has failed. Revealed brickwork is in good condition.

[none]



Weathered Brickwork Example Exposed abutments showed few small

Exposed abutments showed few small, isolated patches of weathered brick work

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
9	Abutments (inc arch springing)	09/Abutments(inc.arch spring)	2	В	3.6	L	N	

 Comment
 Remedial Works

 The abutments were mostly below water level on day of [none]
 [none]

The abutments were mostly below water level on day of inspection with only 300mm exposed.

- Exposed abutments showed few small isolated patches of weathered brick work

- Concrete finish at South west (under concrete arch) has failed. Revealed brickwork is in good condition.

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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Load-bearing Substructure



South East Buttress - Moderately Weathered Brickwork

Both Buttresses have moderate weathering to brick work.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
10	Spandrel wall/head wall	Buttress	3	С	3.6	М	N	

Comment **Remedial Works** [none]

Both Buttresses had moderate weathering to brickwork.



South West Buttress - Vegetation Weeds/ Shrub growing from South West abutment. Plant is Buddleia (Butterfly Bush) and will likely contribute to deterioration of brickwork.

No	Element Name	Element Description	S	Sev	Ext	Defect	Priority	Works	Cost £k
10	Spandrel wall/head wall	Buttress		4	В	5.1	Н	N	
Comment			Remedial Works						

Weeds/ Shrub growing from South West buttress. Plant is Buddleia (Butterfly Bush) and will likely contribute to deterioration of brickwork.

Remove vegetation and prevent from further growth.

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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Durability Elements



Crown - Example of Historic Seepage Seepage through brickwork evident in leachate and calcite deposits on brick faces.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k	
17	Waterproofing	17/Water proofing	2	С		L	N		

Comment Remedial Works

Waterproofing is unlikely to be present over arch. All elements were dry on day of inspection. However, historic seepage through brickwork evident in leachate and calcite deposits on brick faces.

[none]



South Parapet

Moderate loss of pointing to lower courses of inside face.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
23	Handrail/parapets/safety fences	23/Handrail/parapet/saf.fences	3	С	3.2	М	N	
Comment		Remedial Work	s					

 $\mbox{-}$ South parapet has moderate loss of pointing to lower courses of inside face.

- Minor deterioration of pointing to lower courses of brickwork on inside face of parapet.

Repoint Parapet.



FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Safety Elements



South Parapet - West Side

West end of inside face has suffered impact, causing moderate gauges and spalls to brickwork.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
23	Handrail/parapets/safety fences	23/Handrail/parapet/saf.fences	3	С	13.1	М	N	

Comment Remedial Works

- West end of inside face has suffered impact causing moderate gouges and spalls to brickwork.
- East end of inside face has suffered impact causing gauges to brickwork and 2.4m of coping brickwork now missing.
- At North East corner, several bricks were missing to soldier course, likely caused by a vehicle impact.

Brickwork repairs to be carried out to parapets.

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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork





South Parapet - East Side

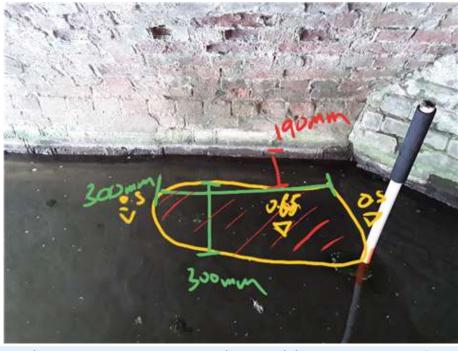
East end of inside face has suffered impact causing gauges to brickwork and 2.4m of coping brickwork now missing.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
23	Handrail/parapets/safety fences	23/Handrail/parapet/saf.fences	3	С	13.1	M	N	

Comment Remedial Works

- West end of inside face has suffered impact causing moderate gouges and spalls to brickwork.
- East end of inside face has suffered impact causing gauges to brickwork and 2.4m of coping brickwork now missing.
- At North East corner, several bricks were missing to soldier course, likely caused by a vehicle impact.

Brickwork repairs to be carried out to parapets.



Minor Scour - North West

Minor patch of scour 300mm^2 located at North West corner, 190mm in front of abutment. Scour patch has a 150mm difference in depth to surrounding area.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
26	Invert/river bed	26/Invert/river bed	2	В	7.1	L	N	

Comment Remedial Works

Minor patch of scour 300mm^2 located at north west corner, 190mm in front of abutment. Scour patch has a 150mm difference in depth to surrounding area.

[none]



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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Other Bridge Elements



South East Wingwall

South East wingwall has areas of moderate erosion to brickwork reaching depths up to 35mm.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
31	Wing walls	31/Wing walls	3	С	3.6	М	N	

Comment **Remedial Works**

South East wingwall had areas of moderate erosion to brickwork, reaching depths up to 35mm.

[none]



South East Wingwall - Example of **Weathered Brickwork**

South East wingwall has areas of moderate erosion to brickwork reaching depths up to 35mm.

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No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
31	Wing walls	31/Wing walls	3	С	3.6	М	N	
Comment		Re	medial Works					

South East wingwall had areas of moderate erosion to

brickwork, reaching depths up to 35mm.

[none]

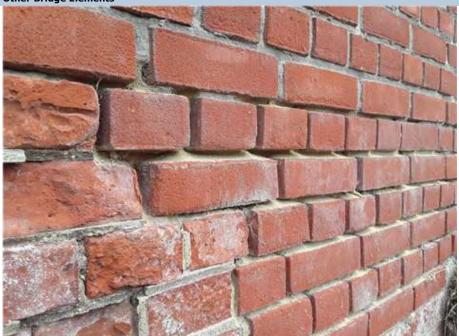
07/10/2022 **Report Status:** Approved **Submitted Date: Submission Count: Print Date:** 13/12/2022



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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Other Bridge Elements



South East Wingwall - Moderate **Deterioration of Pointing**

Moderate loss of pointing up to depths of 40mm in a 0.5m x 1m area.

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
31	Wing walls	31/Wing walls	3	В	3.2	M	N	

Remedial Works Comment

Moderate loss of pointing up to depths of 40mm in a

[none]

0.5m x 1m area.



20220715_140521.jpg

Upload/Link Photos to: 31 - 31/Wing walls

Element Name Element Description Priority Works Cost £k No Ext Defect 31/Wing walls 31 Wing walls В 5.1

Remedial Works

Weeds/ Shrub growing at end of South West wingwall/ retaining wall. Shrub is most likely Buddleia (Butterfly Bush) and could potentially contribute to deterioration of brickwork.

Remove vegetation and prevent from further growth.

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Comment

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FINCHINGFIELD - Span 1-26/42606/01 - Brickwork

Other Bridge Elements



South East Wing Wall - Vertical CrackSouth East wingwall has a vertical crack extending 1.7m (full height including both sides of wingwall parapet), open 1mm to 1.5mm

No	Element Name	Element Description	Sev	Ext	Defect	Priority	Works	Cost £k
31	Wing walls	31/Wing walls	2	В	3.5	L	N	

Comment Remedial Works

South East wingwall had a historic vertical crack extending 1.7m (full height including both sides of wingwall parapet), open 1mm to 1.5mm.

[none]

