

General Inspection CSS		Inspector: [REDACTED]							Form 1 of 3 for this bridge	
Bridge Name: CLODDACH									Date: 02/12/2021	
Bridge Ref/No: C2E/20		Span Width: 4.55m		Map Ref: 320172, 858398						
		Span Length: 6.73m		Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface						
Span description: west span									Primary Deck Material: E Steel	
All above ground elements inspected: Yes		Photographs: Yes		Secondary Deck Form: 23 Jack Arch - No Transverse Beams						
Number of construction forms in bridge/span: 1									Secondary Deck Material: B Plain / Mass Concrete	
Set	No	Element Description	S	Ex	Def	W	P	Cost	Comments	
Deck Elements	1	Primary Deck Element (Table 2)	4	D	1.2	RM	H	99	Significant section loss to outside beams. Approx 5mm section loss to bottom flange (assumed original flange thickness of 15mm). Concrete jack-arches could not be inspected. Some rusting and corrosion visible to corrugated metal base. Condition of concrete unknown. No tie rods visible.	
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0		
	7	Deck Bracing	3	D	1.2	RM	M	99		
Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0	0.8mm vertical crack full height. . Horizontal crack	
	9	Abutments (Incl. Arch Springing)	3	B	2.2	RM	M	99		
	11	Pier/Column	2	B	2.2	N	?	0		
Durability Elements	15	Superstructure Drainage	5	E	8.1	VD	H	99	deck drainage totally blocked. Water dripping from superstructure Abutment weep holes not working Soffit of deck wet and dripping throughout with calcite stalactites. Waterproofing failed	
	16	Substructure Drainage	5	E	8.4	VD	H	99		
	17	Waterproofing	4	E	14.2	W	H	99		
	19	Painting: Deck Elements	5	E	4.1	SBP	H	99		
	21	Painting: Parapets/Safety Fences	5	D	4.1	SBP	L	99		
Safety Elements	23	Handrail/Parapets/Safety Fences	4	B	1.2	RM	H	99	Vertical posts flaking at base Resurfacing required	
	24	Carriageway Surfacing	3	C	9.2	RM	M	99		
Other Bridge Elements	26	Invert/River Bed	2	B	7.1	N	?	0	Minor scour Minor scour Blockwork on top of cutwater spalled and broken out. Small weir upstream to divert water towards middle span at low flow. Concrete spalling and brakout to detailing at top of wingwall	
	27	Aprons	2	B	7.1	N	L	1,000		
	28	Fenders/Cutwaters/Collision Protection	3	D	3.6	RM	L	1,000		
	29	River Training Works	1	A	99.1	?	?	0		
	31	Wing Walls	3	C	3.5	RM	L	99		
	33	Embankments	1	A	11.1	?	?	0		



Ancillary Elements	35	Approach Rails/Barriers/Walls	1	A	16.1	?	?	0	
	36	Signs	4	C	13.1	RM	H	99	Height restriction gantry damaged
	38	Services	1	A	1.1	?	?	0	



Multiple Defects					
Element Number	Defect Number	Severity	Extent	Defect	Comments
1	1	3	D	1..1	Pitting to bottom flange of outside beams.
11	1	1	A	2..2	
31	1	3	B	2..4	

Inspector's Comments	
No comments recorded by inspector.	

Name: [REDACTED] Signed: _____ Date: 02/12/2021

Engineer's Comments	
No comments recorded by engineer.	

Name: ? Signed: _____ Date: 01/01/9999

Work Required			
Reference No.	Suggested Remedial Work	Priority	Estimated Cost
1	SHOT BLAST AND PAINT	High	£99
1	R Repair / Maintain	High	£99
7	R Repair / Maintain	Medium	£99
9	R Repair / Maintain	Medium	£99
11	N No Action Monitor Only	?	£0
15	REMOVE VEGETATION & DEBRIS	High	£99
16	REMOVE VEGETATION & DEBRIS	High	£99
17	REPLACE WATERPROOFING	High	£99
19	SHOT BLAST AND PAINT	High	£99
21	SHOT BLAST AND PAINT	Low	£99
23	R Repair / Maintain	High	£99
24	R Repair / Maintain	Medium	£99
26	N No Action Monitor Only	?	£0
27	N No Action Monitor Only	Low	£1,000
28	R Repair / Maintain	Low	£1,000
31	R Repair / Maintain	Low	£99
31	R Repair / Maintain	Low	£99
36	R Repair / Maintain	High	£99

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General Inspection CSS		Inspector: [REDACTED]							Form 2 of 3 for this bridge	
Bridge Name: CLODDACH									Date: 02/12/2021	
Bridge Ref/No: C2E/20		Span Width: 4.55m			Map Ref: 320172, 858398					
		Span Length: 6.73m			Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface					
Span description: centre span									Primary Deck Material: E Steel	
All above ground elements inspected: Yes		Photographs: Yes			Secondary Deck Form: 23 Jack Arch - No Transverse Beams					
Number of construction forms in bridge/span: 1									Secondary Deck Material: B Plain / Mass Concrete	
Set	No	Element Description	S	Ex	Def	W	P	Cost	Comments	
Deck Elements	1	Primary Deck Element (Table 2)	4	D	1.2	RM	H	99	Significant section loss to outside beams. Approx 5mm section loss to bottom flange (assumed original flange thickness of 15mm). Concrete jack-arches could not be inspected. Some rusting and corrosion visible to corrugated metal base. Condition of concrete unknown. No tie rods visible.	
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0		
	7	Deck Bracing	3	D	1.2	RM	M	99		
Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0		
Durability Elements	15	Superstructure Drainage	5	E	8.1	VD	H	99	deck drainage totally blocked. Water dripping from superstructure Soffit of deck wet and dripping throughout with calcite stalactites. Waterproofing failed	
	17	Waterproofing	4	E	14.2	W	H	99		
	19	Painting: Deck Elements	5	E	4.1	SBP	H	99		
	21	Painting: Parapets/Safety Fences	5	D	4.1	SBP	L	99		
Safety Elements	23	Handrail/Parapets/Safety Fences	4	B	1.2	RM	H	99	Vertical posts flaking at base Resurfacing required	
	24	Carriageway Surfacing	3	C	9.2	RM	M	99		
Other Bridge Elements	26	Invert/River Bed	5	E	7.1	RM	H	99	Severe scour at centre span undercutting invert. Scour is approx 0.5-1m away from pier.	
	27	Aprons	4	D	7.1	RM	H	99		



Ancillary Elements	38	Services	1	A	1.1	?	?	0	



Multiple Defects					
Element Number	Defect Number	Severity	Extent	Defect	Comments
1	1	3	D	1..1	Pitting to bottom flange of outside beams.

Inspector's Comments

No comments recorded by inspector.

Name: [REDACTED] Signed: _____ Date: 02/12/2021

Engineer's Comments

No comments recorded by engineer.

Name: ? Signed: _____ Date: 01/01/9999

Work Required			
Reference No.	Suggested Remedial Work	Priority	Estimated Cost
1	SHOT BLAST AND PAINT	High	£99
1	R Repair / Maintain	High	£99
7	R Repair / Maintain	Medium	£99
15	REMOVE VEGETATION & DEBRIS	High	£99
17	REPLACE WATERPROOFING	High	£99
19	SHOT BLAST AND PAINT	High	£99
21	SHOT BLAST AND PAINT	Low	£99
23	R Repair / Maintain	High	£99
24	R Repair / Maintain	Medium	£99
26	R Repair / Maintain	High	£99
27	R Repair / Maintain	High	£99



General Inspection CSS		Inspector: [REDACTED]		Form 3 of 3 for this bridge					
Bridge Name: CLODDACH				Date: 02/12/2021					
Bridge Ref/No: C2E/20		Span Width: 4.55m		Map Ref: 320172, 858398					
		Span Length: 6.73m		Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface					
Span description: east span				Primary Deck Material: E Steel					
All above ground elements inspected: Yes		Photographs: Yes		Secondary Deck Form: 23 Jack Arch - No Transverse Beams					
Number of construction forms in bridge/span: 1				Secondary Deck Material: B Plain / Mass Concrete					
Set	No	Element Description	S	Ex	Def	W	P	Cost	Comments
Deck Elements	1	Primary Deck Element (Table 2)	4	D	1.2	RM	H	99	Significant section loss to outside beams. Approx 5mm section loss to bottom flange (assumed original flange thickness of 15mm). Concrete jack-arches could not be inspected. Some rusting and corrosion visible to corrugated metal base. Condition of concrete unknown. No tie rods visible.
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0	
	7	Deck Bracing	3	D	1.2	RM	M	99	
Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0	Concrete spalling/breakout at beams. Large aggregate size. No reinforcement visible. Horizontal crack
	9	Abutments (Incl. Arch Springing)	3	B	2.1	RM	M	99	
	11	Pier/Column	2	B	2.2	N	?	0	
Durability Elements	15	Superstructure Drainage	5	E	8.1	VD	H	99	deck drainage totally blocked. Water dripping from superstructure Abutment weep holes not working Soffit of deck wet and dripping throughout with calcite stalactites. Waterproofing failed
	16	Substructure Drainage	5	E	8.4	VD	H	99	
	17	Waterproofing	4	E	14.2	W	H	99	
	19	Painting: Deck Elements	5	E	4.1	SBP	H	99	
	21	Painting: Parapets/Safety Fences	5	D	4.1	SBP	L	99	
Safety Elements	23	Handrail/Parapets/Safety Fences	4	B	1.2	RM	H	99	Vertical posts flaking at base Resurfacing required
	24	Carriageway Surfacing	3	C	9.2	RM	M	99	
Other Bridge Elements	26	Invert/River Bed	2	B	7.1	N	?	0	Minor scour Minor scour Blockwork on top of cutwater spalled and broken out. Small weir upstream to divert water towards middle span at low flow. Concrete spalling and brakout to detailing at top of wingwall
	27	Aprons	2	B	7.1	N	L	1,000	
	28	Fenders/Cutwaters/Collision Protection	3	D	3.6	RM	L	1,000	
	29	River Training Works	1	A	99.1	?	?	0	
	31	Wing Walls	3	C	3.5	RM	L	99	
	33	Embankments	1	A	11.1	?	?	0	



Ancillary Elements	35	Approach Rails/Barriers/Walls	1	A	16.1	?	?	0	
	36	Signs	4	C	13.1	RM	H	99	Height restriction gantry damaged
	38	Services	1	A	1.1	?	?	0	



Multiple Defects					
Element Number	Defect Number	Severity	Extent	Defect	Comments
1	1	3	D	1..1	Pitting to bottom flange of outside beams.
11	1	1	A	2..2	
31	1	3	B	2..4	

Inspector's Comments

No comments recorded by inspector.

Name: [REDACTED] Signed: _____ Date: 02/12/2021

Engineer's Comments

No comments recorded by engineer.

Name: ? Signed: _____ Date: 01/01/9999

Work Required			
Reference No.	Suggested Remedial Work	Priority	Estimated Cost
1	SHOT BLAST AND PAINT	High	£99
1	R Repair / Maintain	High	£99
7	R Repair / Maintain	Medium	£99
9	R Repair / Maintain	Medium	£99
11	N No Action Monitor Only	?	£0
15	REMOVE VEGETATION & DEBRIS	High	£99
16	REMOVE VEGETATION & DEBRIS	High	£99
17	REPLACE WATERPROOFING	High	£99
19	SHOT BLAST AND PAINT	High	£99
21	SHOT BLAST AND PAINT	Low	£99
23	R Repair / Maintain	High	£99
24	R Repair / Maintain	Medium	£99
26	N No Action Monitor Only	?	£0
27	N No Action Monitor Only	Low	£1,000
28	R Repair / Maintain	Low	£1,000
31	R Repair / Maintain	Low	£99
31	R Repair / Maintain	Low	£99
36	R Repair / Maintain	High	£99