Structure Inspection Report

B1001 · Smiths Creek Bridge

Report ID	B1001-20261118-1855	**Project**	Demo project
Inspection date	18/11/2026	**Structure (No · name)**	B1001 · Smiths Creek Bridge
Inspection type	Level 2 (condition)	**Road**	Old Coach Rd
Inspector	A. Inspector	**LGA**	
Weather	Fine, low creek flow	**Access**	
Status	Complete	**Type / layout**	Concrete (PSC planks): 3 spans, 36 m long, 8.4 m wide, 8 planks/span
Posted load limit	Not recorded	**Location**	-33.74120, 150.60250
Asset ref			

Superstructure

Fair

Substructure

Poor

General notes

Concrete superstructure in fair condition with a structural crack in Span 2. Pier P1 spalling at the waterline with exposed reinforcement: repair recommended within 12 months. Barrier impact damage near A2.

Summary

6 defects recorded, 7 photos. CS1 0 CS2 3 CS3 3 CS4 0

Element	Defects	Worst CS
Span 2 / Plank 3	D1	CS3
Span 3 / Plank 2	D2	CS2
Pier 1 / Pile 1	D3	CS3
Pier 1 / Headstock	D4	CS2
Abutment A1 / Wingwall U/S	D5	CS2
Span 3 / Barrier U/S	D6	CS3

Public Safety Risk Assessment

Hazard	Likelihood	Consequence	Risk rating
Barrier damage - vehicles leaving the road	Unlikely	Major	**Medium (20)**
Exposed reinforcement / spalling falling onto the creek path	Possible	Moderate	**Medium (18)**

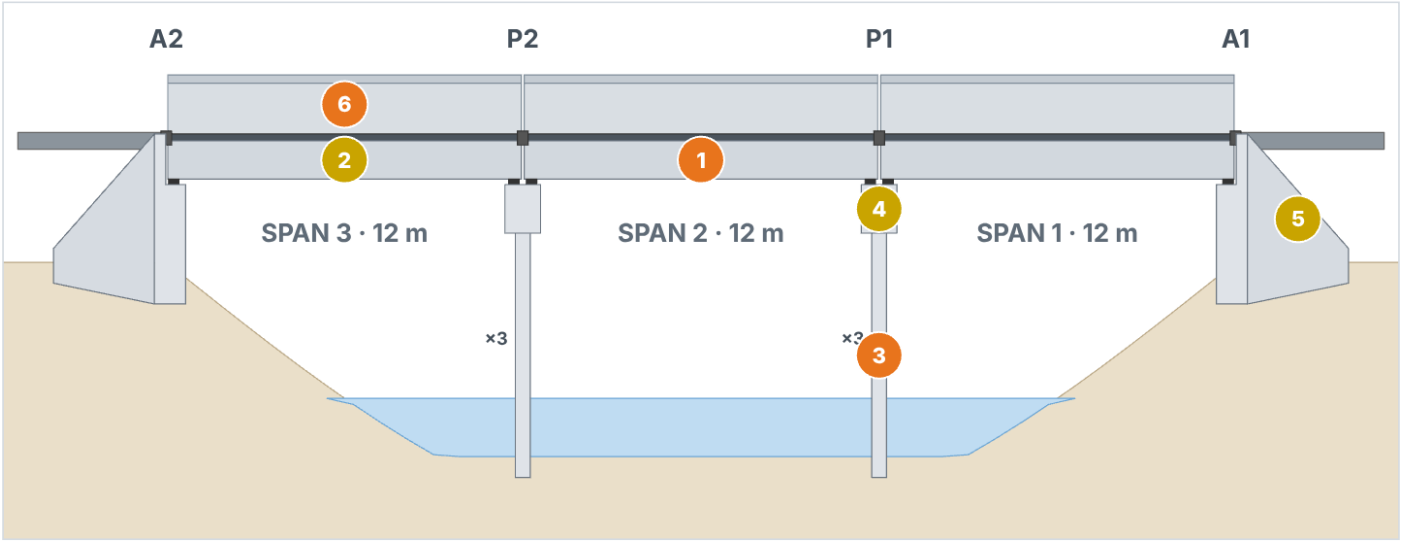
Risk notes / controls

Barrier repair to be prioritised. Temporary delineation installed on site.

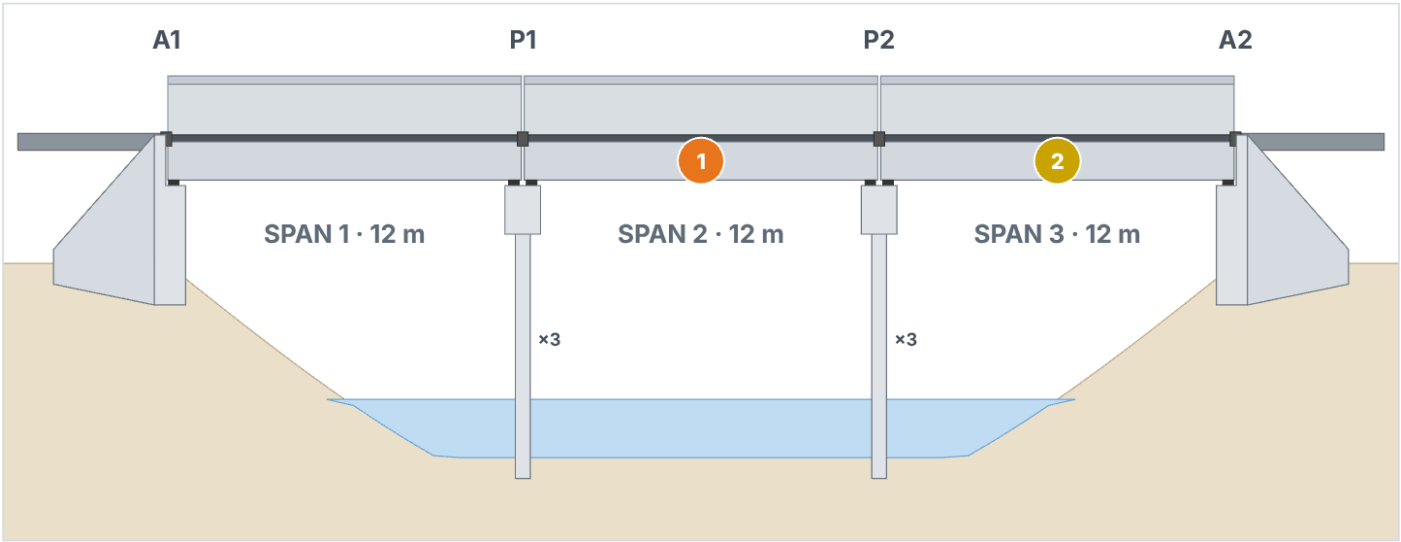
NSW Office of Environment and Heritage Health & Safety Risk Matrix					
Consequence -> **Likelihood**	**Insignificant** 2 May have little or no impact on health and safety	**Minor** 3 May have some impact on health and safety, but will be able to recover from or repair the damage within a relatively short term	**Moderate** 6 A moderate permanent disability or long term impairment	**Major** 10 A single fatality or severe permanent disability	**Catastrophic** 20 Multiple fatalities or significant irreversible effects on the health of a large number of people
Likely 5 There is a very good chance this event will occur in the near future	M 10	M 15	H 30	E 50	E 100
Probable 4 This event has occurred several times or more in corporate experience	L 8	M 12	H 24	E 40	E 80
Possible 3 This event might occur once or twice in corporate experience	L 6	L 9	M 18	H 30	E 60
Unlikely 2 This event does occur somewhere from time to time, but very seldom	L 4	L 6	M 12	M 20	E 40
Rare 1 It is theoretically possible for this event to occur, but extremely unlikely that it will	L 2	L 3	L 6	M 10	M 20

Defect locations

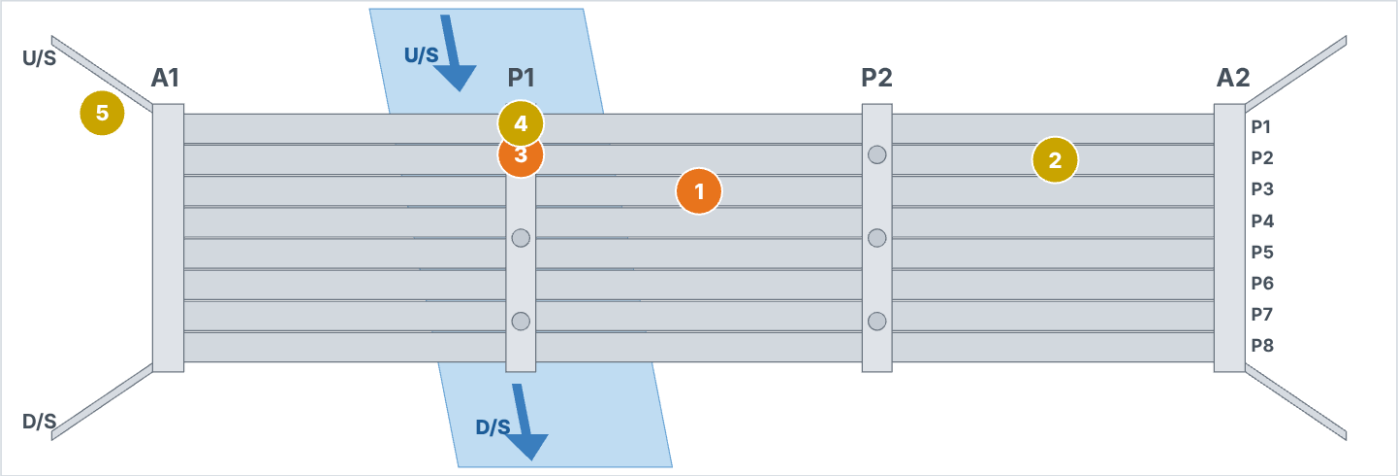
U/S elevation



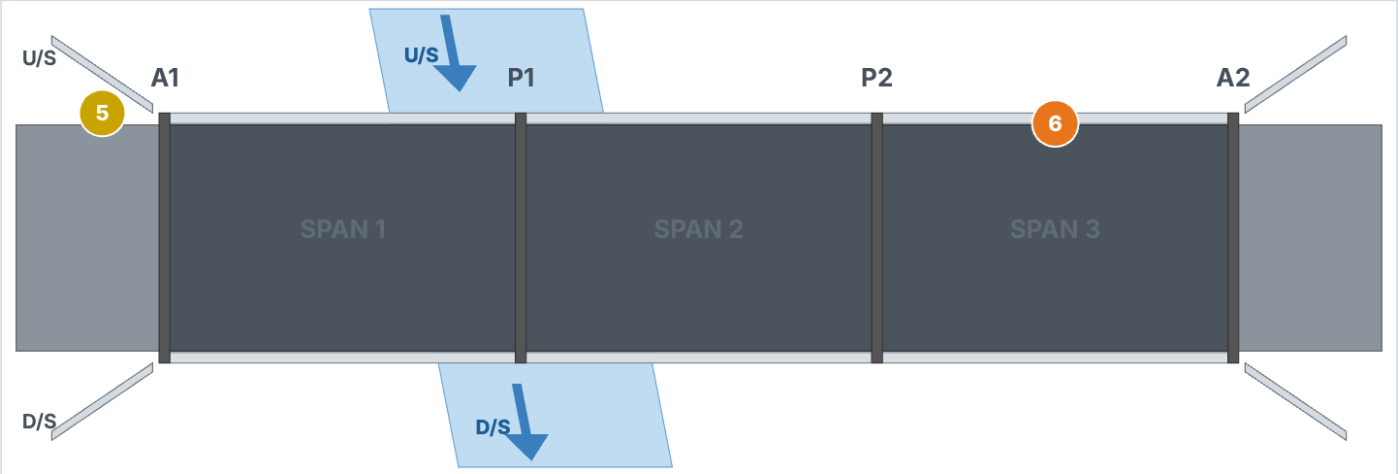
D/S elevation



Plan (soffit)



Plan (deck top)



Defect register

No	Element / position	Defect	CS	Size	Action	Notes	Ph
D1	Span 2 / Plank 3 · 6.0 m from P1	Longitudinal cracking along strand	CS3	L 2.4 m, W 0.4 mm	Epoxy crack injection (Medium)	Longitudinal crack along the soffit of the plank, light efflorescence at both ends.	1
D2	Span 3 / Plank 2 · 6.0 m from P2	Spalling	CS2	D 25 mm, A 0.15 m²	Patch repair (Low)	Spall at the downstream corner, reinforcement not exposed.	1
D3	Pier 1 / Pile 1	Spalling	CS3	D 40 mm, A 0.3 m²	Treat exposed reinforcement & patch (High)	Spalling at the waterline with exposed, corroded bars. Section loss to be measured.	2
D4	Pier 1 / Headstock · U/S face	Cracking - map / shrinkage	CS2	L 0.6 m, W 0.2 mm	Monitor (Low)	Hairline cracking in the headstock below the bearing seat. Monitor at the next inspection.	1
D5	Abutment A1 / Wingwall U/S · U/S face	Cracking - structural (flexure/shear)	CS2	L 1.1 m, W 0.3 mm	Monitor (Low)	Vertical crack in the upstream wingwall with minor efflorescence.	1
D6	Span 3 / Barrier U/S · 6.0 m from P2	Impact damage	CS3	L 1.8 m	Replace barrier section (Medium)	Barrier damaged by vehicle impact, upstream side near A2.	1

Photo schedule



B1001_D001_S2-M3_01.jpg
D1 · Span 2 / Plank 3 · Longitudinal cracking along strand (CS3)
18/11/2026 17:56



B1001_D002_S3-M2_01.jpg
D2 · Span 3 / Plank 2 · Spalling (CS2)
18/11/2026 17:57



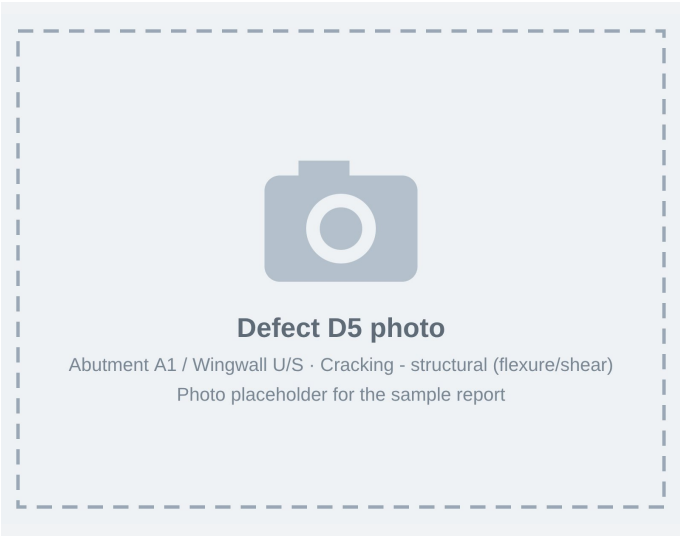
B1001_D003_P1-C1_01.jpg
D3 · Pier 1 / Pile 1 · Spalling (CS3)
18/11/2026 17:59



B1001_D003_P1-C1_02.jpg
D3 · Pier 1 / Pile 1 · Spalling (CS3)
18/11/2026 18:01



B1001_D004_P1-HS_01.jpg
D4 · Pier 1 / Headstock · Cracking - map / shrinkage (CS2)
18/11/2026 18:02



B1001_D005_A1-WU_01.jpg
D5 · Abutment A1 / Wingwall U/S · Cracking - structural (flexure/shear) (CS2)
18/11/2026 18:04



B1001_D006_S3-BU_01.jpg
D6 · Span 3 / Barrier U/S · Impact damage (CS3)
18/11/2026 18:05