5.6. BRIDGE RENEWAL PROGRAM - POLETTI'S BRIDGE

REPORT AUTHOR(S): Michael Matthews, Project Engineer
GENERAL MANAGER: Michael Kriedemann, Acting General Manager Operations
DEPARTMENT: Infrastructure

RECOMMENDATION

That Council resolves to:

- **apply to the Australian Government to have surplus grant funding of $439,000 approved under Round Three of the Bridges Renewal Program for Diggers Bridge Replacement Program to be transferred to the Poletti's Bridge Renewal Project;**
- **commit to providing the required capital funds of $511,000 to complete the Poletti's Bridge Renewal Project should the application to transfer the grant funding be successful; and**
- **delegates authority to the CEO under section 257 of the *Local Government Act 2009* to finalise any and all matters associated with the transfer of grant funds application.**

EXECUTIVE SUMMARY

Council undertakes regular inspections of its bridges and major culvert structures. Condition and performance monitoring of these structures utilise the Department of Transport and Main Road Bridge Inspection Manual which closely aligns the performance of assets to the level of service provided to customers. This is generally measured in terms of reliability, availability, capacity and meeting customer demands and needs.

Council has recently completed the annual program of structure inspections to update the current condition status for each structure and to determine the annual maintenance program.

The Poletti's Bridge inspection previously identified the structure to be in poor condition and a further inspection by a qualified engineer / bridge inspector determined that the structural issues have deteriorated further and recommended a temporary bypass be installed for the cane crushing season to ensure the current 10(t) load limit can be strictly enforced.

The proposal is to renew Poletti's Bridge with a single span post tensioned concrete beam structure. This new structure will mitigate the risk associated with the current ageing infrastructure and will deliver economic benefits for the local industry currently operating in the valley accessed via Poletti's Road. Poletti's Bridge is a shovel ready project as the detailed design and documentation is completed and this project has successfully gained all approvals required for construction. A construction budget of $950,000 is required for the construction and project management phases.

BACKGROUND

Poletti's Bridge provides access to a small number of sugar cane growing properties. The existing structure has been assessed as being in condition state 4 (on a scale of 1 - 5) and all measures have been actioned to keep this structure in service. Council recently completed a Level 2 bridge inspection and the recommendation has been to reduce the load limit to 10 (t) tonne. To ensure cane harvesters and bin haulers can access the farms in the area, a temporary gravel causeway was constructed at the beginning of the harvest season.

The proposal is to renew Poletti's Bridge with a single span post tensioned concrete beam structure. This new structure will mitigate the risk associated with the current ageing infrastructure and will deliver economic benefits for the local industry currently operating in the valley accessed via Poletti's Road.

Poletti's Bridge is a shovel ready project as the detailed design and documentation is completed and this project has successfully gained all approvals required for construction. A construction budget of $950,000 is required for the construction and project management phases.

COMMENTS

The Bridge Renewal Program has strategically prioritised the upgrade or replacement of bridges and major culverts based on several key criteria:

- Economic benefits to the local and wider community;
- Current structure condition and intervention options available; and
- Potential for catastrophic failure and the risk of personal injury.

Based on the above program priorities, Council nominated Noah Creek Bridge and Diggers Bridge for external funding. In 2017 Council was successful in gaining funding through the Australian Government Bridge Renewal Program Round 3 for Diggers Bridge.

At the Ordinary Council Meeting of 21 November 2017, Council resolved to match the Bridge Renewal Program Round Three grant funding on a 50/50 basis (Council contribution of $1,339,250) and this commitment was included in the 2018/19 budget. At the Ordinary Council Meeting of 15 May 2018, Council resolved to award the construction contract to Kenmac Constructions for $1,658,000 (GST exclusive).

PROPOSAL

That Council resolves to:

- apply to the Australian Government to have surplus grant funding of $439,000 approved under Round Three of the Bridges Renewal Program for Diggers Bridge Replacement Program to be transferred to the Poletti's Bridge Renewal Project;

- commit to providing the required capital funds of $511,000 to complete the Poletti's Bridge Replacement Project should the application to transfer the grant funding be successful; and

- delegates authority to the CEO under section 257 of the *Local Government Act 2009* to finalise any and all matters associated with the transfer of grant funds application.

FINANCIAL/RESOURCE IMPLICATIONS

Council has allocated the following amounts in the capital budget to the Diggers Bridge Replacement Project:

Approved Budget 18/19 (Including Carry Over Budget)	$1,339,250
Transport Infrastructure Development Scheme	$1,339,250
Total Approved Budget	$2,678,500
Awarded Contract to Kenmac Construction	$1,658,000
Contingencies including Project Management	$142,500
Total anticipated actuals	$1,800,500
Unallocated Budget	$878,000

Digger Bridge Project is under budget and on schedule. A saving of $439,000 (determined on a 50:50 project contribution split) is anticipated from Council's capital contribution. The Funding Agreement conditions specifically detailed funds saved cannot be used on other bridge renewal projects. It is proposed that Council apply to the Australian Government to have the savings from the grant ($439,000) transferred to the Poletti's Bridge project.

The Poletti's Bridge renewal has been designed and is ready for construction. It is proposed that $439,000 be transferred from the Diggers Bridge project and an additional $72,000 be allocated to the Poletti's Bridge Renewal Project, giving a Council contribution of $511,000. It is further proposed that the savings from the Australian Government grant for Diggers Bridge $439,000 be reallocated to the Poletti's Bridge project (at the approval of the Australian Government).

RISK MANAGEMENT IMPLICATIONS

Council must plan and deliver a suitable works program to ensure that its assets are able to service the needs of the communities with Douglas Shire. Council has a statutory obligation as a service provider to ensure it is able to provide transport services to customers.

Council's reputation and local industry would suffer if it is unable to maintain assets and service levels at necessary standards. The consequence of inadequate maintenance and upgrade of capital assets will be increased costs in the future.

This project will be completed through an open tender process to select a Principal Contractor. Council's tender assessment process includes a ranking of the tender for value for money and the contractors experience in role of the Principal Contractor for similar size projects. Council contract supervision and project management for this type of project will ensure regular communication, understanding of the construction processes and timeframes are maintained to the required standard and budgets allocated.

This project will be constructed during the winter dry period, which is also the peak cane crushing season. Traffic delays are not expected during construction as a temporary bypass will be implemented during construction.

SUSTAINABILITY IMPLICATIONS:

Economic: This project will improve safety at this section of the valley, increase flood resilience and provide a robust asset. Tourists and tour operators will be able to enjoy increased access to the various areas and communities in the Shire once the project is completed. The proposed use of local contractors in the supply of goods and services for the construction of essential public assets provides economic opportunities within the Shire.

Environmental: The design of the Poletti's Bridge replacement structure incorporated Wet Tropics Management Authority (WTMA) principles and environmental conditions have been addressed.

Social: Improved resilience for public infrastructure is necessary to provide safe and useable transport networks for the movement of goods and services, particularly in rural areas and during the preparation and recovery from natural disaster. Well maintained and safe road networks are vital for ensuring communities are connected and have access to goods, services and community networks.

CORPORATE/OPERATIONAL PLAN, POLICY REFERENCE

This report has been prepared in accordance with the following:

Corporate Plan 2014-2019 Initiatives:

Theme 5 - Governance

5.1.1 - Establish and develop long term financial, resource and infrastructure planning to ensure ongoing capacity to fund operations and capital works programs.

COUNCIL'S ROLE

Council can play a number of different roles in certain circumstances and it is important to be clear about which role is appropriate for a specific purpose or circumstance. The implementation of actions will be a collective effort and Council's involvement will vary from information only through to full responsibility for delivery.

The following areas outline where Council has a clear responsibility to act:

Asset-Owner Meeting the responsibilities associated with owning or being the custodian of assets such as infrastructure.

ATTACHMENTS

1. 8011 - Poletti Road Bridge - 2 Span Timber bridge - 182725 **[5.6.1]**

Level Two Structure Inspection Report

A2/1

Structure ID:	8011	Name:	Poletti Road Bridge - 2 Span Timber brid
Crossing:	Saltwater Creek	Road Number:	
Structure Type:	Bridge	Road Name:	Poletti Road
Construction Type:	Girder	Owner:	Douglas Shire Council
Construction Material:	Timber	District:	Miallo
Inspector:	Mark de Hayr	Local Authority:	DSC
Latitude:	-16.407509	Longitude:	145.356155
Inspection Date:	4/06/2018	Max Height (M)	4.5
Next Inspection Date:	4/06/2019	Width (M)	4.5
Total Length (M)	18	Bearing - AP1-AP2	East
Carriageway		Load Limit	10
Footway	None	Status	Active
Chainage (Km)		From	To

Inspection Level 2 ☑ Level 3 ☐ Programmed ☑ Exceptional ☐ Underwater ☐

Inspection Comments:

Two Span Timber Girder Bridge crossing Saltwater Creek on Poletti's Road. Approach One is deemed to be Western Side and is Give Way controlled. Structure is currently Load Limited to 10t.
Temporary Works has been emplaced by adding a Fender Pile to Pier One RHS (Upstream Side).

Overall Condition State

ModificationName	CS 1	CS 2	CS 3	CS 4	Comments
Original	☐	☐	☐	☑	Structure is in Very Poor Condition

Defect Comments:

Bridge is in Overall Poor Condition. The Snipes/notching have been incorrectly applied in most girders and could be rectified through anti split treatments. Pile Two has been previously Spliced at mid height. Pile Three in Pier is completely rotted through and the load is expected to be currently only be supported through the bracing timber. The Wale in Face Two in the pier (at Pile 3) has split resulting in no support. Piles 1 and 2 in Abutment Two are in CS3 from dill testing but have been elevated to CS4 due to loss of section from surface rot from being in contact with the concrete abutment sheeting. The distributors have missing/insufficient fixings. A "Fender Pile" has been installed by Council on the RHS of Pier One - This is not considered to be significantly adding to the Structural Capacity of the structure.

Girder One and Four in Span One and Girders Three and Four in Span Two have 20-30mm (40-60mm of effective dia) loss of

sapwood through surface rot and would be classed in CS3 without the over sniping issue.

RECOMMENDATIONS: As per the Timber Bridge Inspection Manual - Pile Two has previously been Spliced and Pile Three is in CS4 there is no option but to fully replace one or more of the Piles in the Pier or to replace / upgrade the existing structure. Piles One and Two in Abutment Two should be replaced.

SUGGESTIONS: The addition of further Guideposts in the approach is suggested. Advance warning signage of "Load Limited Bridge Ahead" at the intersection of Syndicate Road and Poletti Road is warranted.

Inventory Report

A2/2

Modification	Group	Component	Standard Number	Exposure Class	Quantity	Unit	CS 1	CS 2	CS 3	CS 4	Mtce Required	Comments
O	AP1	AP	70O	2	1	Each	0	0	1	0	☑	4.5m Bitumen wearing surface in approach has transverse cracking through - consideration for additional guide posts is suggested. Approach One is Give way controlled. Advance warning signage of "Load Limited Bridge Ahead" at the intersection of Syndicate Road and Poletti Road is warranted. [See Photo] - DSCN5941.JPG, DSCN5939.JPG, DSCN5938.JPG, DSCN5940.JPG
O	S1	K	3T	2	19	Lin m	0	19	0	0	☐	Hardwood timber kerbs has minor to medium decay not sufficient to affect the serviceability
O	S1	D	29T	2	38	m2	0	38	0	0	☐	Hardwood Timber Planks are in fair condition - The Distributors require additional fixings [See Photo] - DSCN5942.JPG
O	S2	K	3T	2	18	Lin m	0	18	0	0	☐	Hardwood timber kerbs has minor to medium decay not sufficient to affect the serviceability [See Photo] - DSCN5944.JPG, DSCN5945.JPG
O	S2	D	29T	2	36	m2	0	36	0	0	☐	Hardwood Timber Planks are in fair condition - The Distributors require additional fixings
O	AP2	AP	70O	2	1	Each	0	1	0	0	☑	4.5m Bitumen wearing surface in approach is in fair condition - consideration for additional guide posts is suggested [See Photo] - DSCN5943.JPG
O	A1	ABS	52C	2	10	m2	0	10	0	0	☐	Cast in situ Abutment Sheeting is in fair condition. NOTE: the sheeting has not been correctly installed as is attributing to the surface rot in the pile. [See Photo] - DSCN5946.JPG
O	A1	H	54T	2	2	Each	0	2	0	0	☐	280x180 hardwood headstocks are in fair condition
O	A1	P	56T	2	3	Each	0	2	1	0	☐	Pile Three has Full depth split to 1m from top of pile. Pile Two has doey (soft drilling) at top. [See Photo] - DSCN5948.JPG
O	S1	G	22T	2	4	Each	0	0	0	4	☐	All girders have been over sniped/notched thus resulting in CS4 rating. Girders 1-3 would be in CS2 by drill rating. Girder 1 and 4 has 40-50mm loss of surface section (80-1000mm effective diameter) due to surface rot. [See Photo] - DSCN5947.JPG
O	P1	COR	27T	2	4	Each	0	3	1	0	☐	Corbel 2 is in CS4 due to over sniping, (CS2 by drill testing)
O	P1	H	54T	2	2	Each	0	2	0	0	☐	280x180 hardwood headstocks are in fair condition [See Photo] - DSCN5949.JPG, DSCN5952.JPG

O	P1	P	56T	2	3	Each	0	1	1	1	☐	Pile One has extensive surface splitting and 80mm piping at the top. Pile Three is completely rotted throughout. Face Two Whale has severe spilt. A fender Post has been installed on the Upstream (RHS) to Pile Three. Pile Two has been Previously Spliced and is in Fair Condition [See Photo] - DSCN5950.JPG, DSCN5951.JPG
O	S2	G	22T	2	4	Each	0	0	0	4	☐	All girders have been over sniped/notched thus resulting in CS4 rating. Girders 1-4 would be in CS2 by drill rating. Girder 3 and 4 (20-30mm) loss of surface section (40-60mm effective diameter) due to surface rot. Girder One and Three would be in CS3 due to the side splitting.
O	A2	ABS	52C	2	10	m2	0	10	0	0	☐	Cast in situ Abutment Sheeting is in fair condition. NOTE: the sheeting has not been correctly installed as is attributing to the surface rot in the piles. [See Photo] - DSCN5953.JPG
O	A2	H	54T	2	2	Each	0	1	1	0	☐	280x180 hardwood headstocks are in fair condition. Headstock One has 400x100mm section of rot at top of pile Two. "White Rot" is developing along the front face of Headstock One. [See Photo] - DSCN5955.JPG
O	A2	P	56T	2	2	Each	0	0	0	2	☐	Pile One has Full depth split to 1m from top of pile. Pile Two has doey (soft drilling) at top. Piles are rated CS3 by drill rating and have been elevated to CS4 due to loss of section due to surface rot at the base where 20% has deteriorated where it has been in contact with the concrete batter protection. Pile Two has Lichen growth. [See Photo] - DSCN5956.JPG, DSCN5954.JPG, DSCN5957.JPG
O	A2	P	56S	2	1	Each	0	1	0	0	☐	Concrete Filled Steel Pile is in Fair Condition - Abutment Pile #3

Defective Components Report

A2/3

Modification	Group	Component	Standard Number	Exposure Class	Condition State 3	Condition State 4	Defect Description	Monitor	Level 3 Inspection	Other
O	AP1	AP	70O	2	1	0	Install Additional Approach Delineation, install additional advanced warning sign at Syndicate Road intersection	☐	☐	☑
O	AP2	AP	70O	2	0	0	Install Additional Approach Delineation	☐	☐	☑
O	A1	P	56T	2	1	0	Replace Pile	☐	☑	☑
O	S1	G	22T	2	0	4	Replace Girders	☐	☑	☑
O	P1	COR	27T	2	1	0	Replace Corbel	☐	☑	☑
O	P1	P	56T	2	1	1	Replace Pile and Whales	☐	☑	☑
O	S2	G	22T	2	0	4	Replace Girders	☐	☑	☑
O	A2	H	54T	2	1	0	Replace Headstock	☐	☑	☑
O	A2	P	56T	2	0	2	Replace Pile	☐	☑	☑

Standard Procedure Exceptions Report

A2/4

Modification	Group	Component	Standard Number	Exposure Class	Undefined Component	Component Not Inspected	Less than 25% Comp Inspected	Other	Comments *Description *Photographic reference *Reason component not inspected *Any other exceptions
									No Exceptions Noted

Photographs and Sketches Record List

A2/6

Reference	Modification	Group	Component	Description *Deck Surface (full width and alignment) *Side View (waterway, spans, piers, etc) *Underside (deck and pier construction) *Deficient Component and Major Defects *Undefined Elements
DSCN5939.JP	O	AP1	AP	Approach One
DSCN5940.JP	O	AP1	AP	Transverse cracking in Approach One Bitumen Wearing Surface
DSCN5941.JP	O	AP1	AP	Minor Scouring at Approach One LHS
DSCN5938.JP	O	AP1	AP	Approach One
DSCN5942.JP	O	S1	D	General view of Deck Plank from Approach One
DSCN5944.JP	O	S2	K	RHS view from Approach Two
DSCN5945.JP	O	S2	K	Hardwood Timber Kerb rotted
DSCN5943.JP	O	AP2	AP	Approach Two
DSCN5946.JP	O	A1	ABS	Abutment One
DSCN5948.JP	O	A1	P	Surface rot in Abutment One Pile One
DSCN5947.JP	O	S1	G	Detail of surfce rot in Span One Girder One
DSCN5949.JP	O	P1	H	Pier One Face One
DSCN5952.JP	O	P1	H	Pier One Face Two
DSCN5950.JP	O	P1	P	Detail of "Fender " Pile added to Pier One Pile Three
DSCN5951.JP	O	P1	P	Detail of splitting in Whale in Pier One Face One RHS
DSCN5953.JP	O	A2	ABS	Abutment Two
DSCN5955.JP	O	A2	H	Detail of rot in Abutment Two Headtsocks
DSCN5957.JP	O	A2	P	Detail of split and rot in Abutment Two Pile Two
DSCN5954.JP	O	A2	P	Detail of fully depth split in Abutment Two Pile One
DSCN5956.JP	O	A2	P	Detail of Lichen growth in Abutment Two Pile Two

Photographs and Sketches Record

A2/6

Modification:	Group:	Standard Number:	Component:
O	AP1	70O	AP
ID: DSCN5939.JPG		Inspection Date	4/06/2018

Description:

Approach One

Reference:	Sketch:

Modification:	Group:	Standard Number:	Component:
O	AP1	70O	AP
ID: DSCN5940.JPG		Inspection Date	4/06/2018

Description:

Transverse cracking in Approach One Bitumen Wearing Surface

Reference:	Sketch:

Modification:	Group:	Standard Number:	Component:
O	AP1	70O	AP
ID: DSCN5941.JPG		Inspection Date	4/06/2018

Description:

Minor Scouring at Approach One LHS

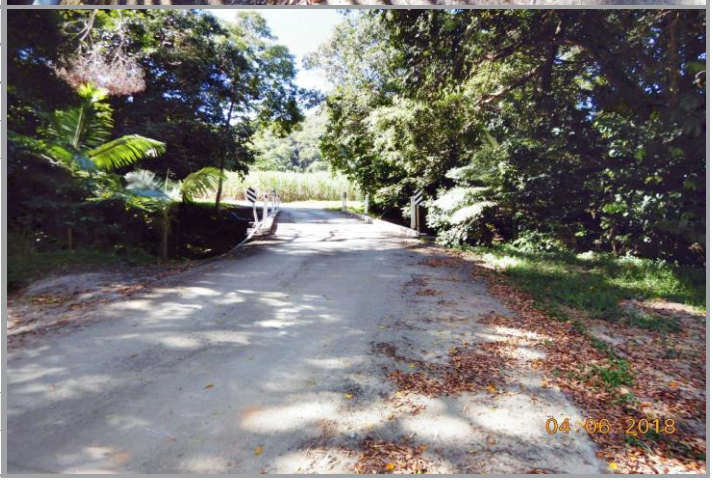
Reference:	Sketch:

Modification:	Group:	Standard Number:	Component:
O	AP1	70O	AP
ID: DSCN5938.JPG		Inspection Date	4/06/2018

Description:

Approach One

Reference:	Sketch:



Modification:	Group:	Standard Number:	Component:
O	S1	29T	D
ID: DSCN5942.JPG		Inspection Date	4/06/2018

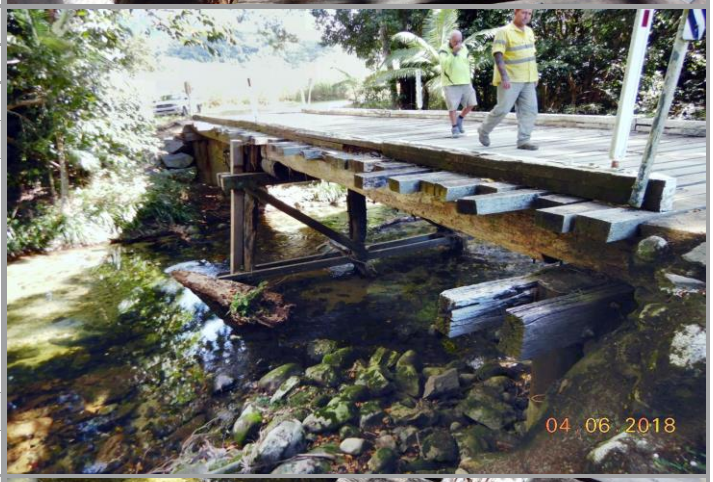
Description:
General view of Deck Plank from Approach One

Reference:	Sketch:

Modification:	Group:	Standard Number:	Component:
O	S2	3T	K
ID: DSCN5944.JPG		Inspection Date	4/06/2018

Description:
RHS view from Approach Two

Reference:	Sketch:



Modification:	Group:	Standard Number:	Component:
O	S2	3T	K
ID: DSCN5945.JPG		Inspection Date	4/06/2018

Description:
Hardwood Timber Kerb rotted

Reference:	Sketch:

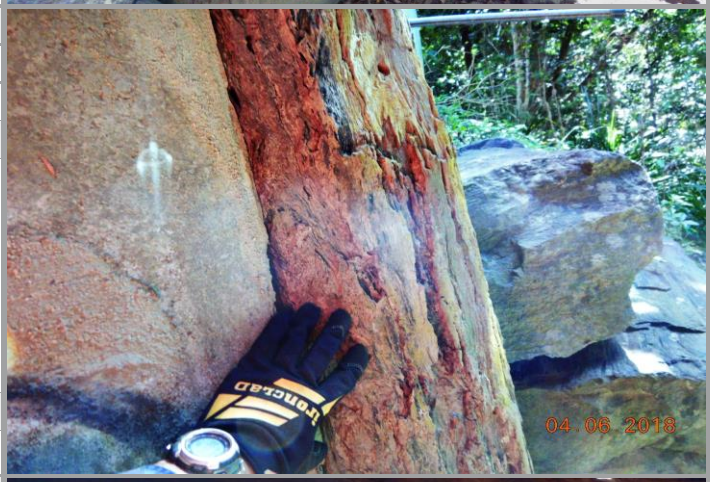
Modification:	Group:	Standard Number:	Component:
O	AP2	70O	AP
ID: DSCN5943.JPG		Inspection Date	4/06/2018

Description:
Approach Two

Reference:	Sketch:

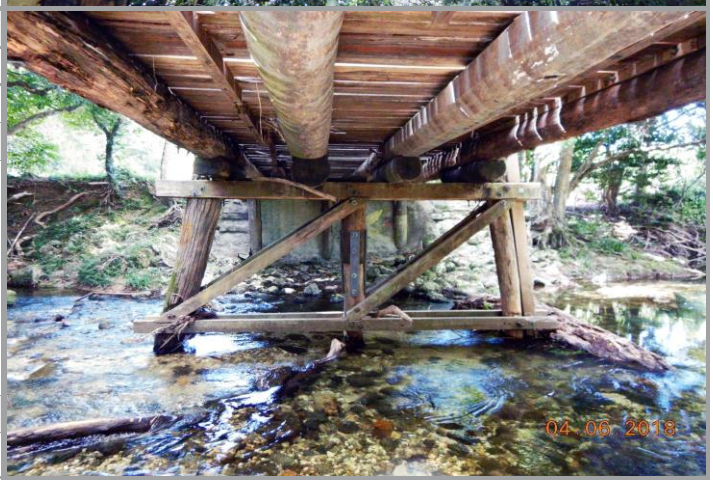
Modification:	Group:	Standard Number:	Component:
O	A1	52C	ABS
ID: DSCN5946.JPG		Inspection Date	4/06/2018
Description:			
Abutment One			
Reference:		Sketch:	

Modification:	Group:	Standard Number:	Component:
O	A1	56T	P
ID: DSCN5948.JPG		Inspection Date	4/06/2018
Description:			
Surface rot in Abutment One Pile One			
Reference:		Sketch:	

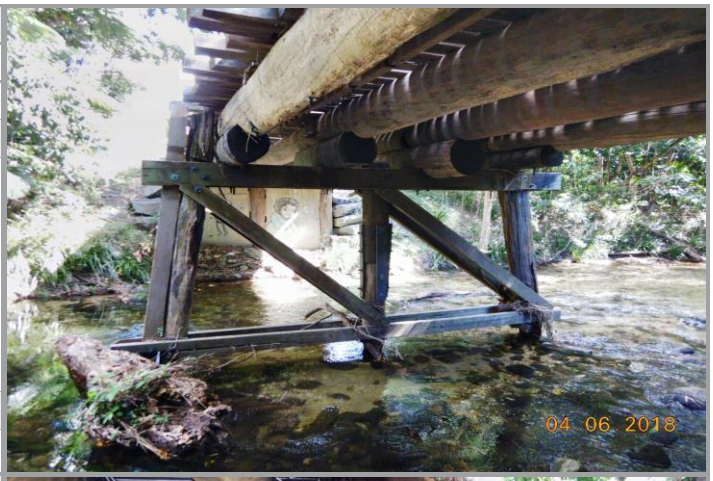


Modification:	Group:	Standard Number:	Component:
O	S1	22T	G
ID: DSCN5947.JPG		Inspection Date	4/06/2018
Description:			
Detail of surfce rot in Span One Girder One			
Reference:		Sketch:	

Modification:	Group:	Standard Number:	Component:
O	P1	54T	H
ID: DSCN5949.JPG		Inspection Date	4/06/2018
Description:			
Pier One Face One			
Reference:		Sketch:	



Modification:	Group:	Standard Number:	Component:
O	P1	54T	H
ID: DSCN5952.JPG		Inspection Date	4/06/2018
Description:			
Pier One Face Two			
Reference:		Sketch:	



Modification:	Group:	Standard Number:	Component:
O	P1	56T	P
ID: DSCN5950.JPG		Inspection Date	4/06/2018
Description:			
Detail of "Fender " Pile added to Pier One Pile Three			
Reference:		Sketch:	

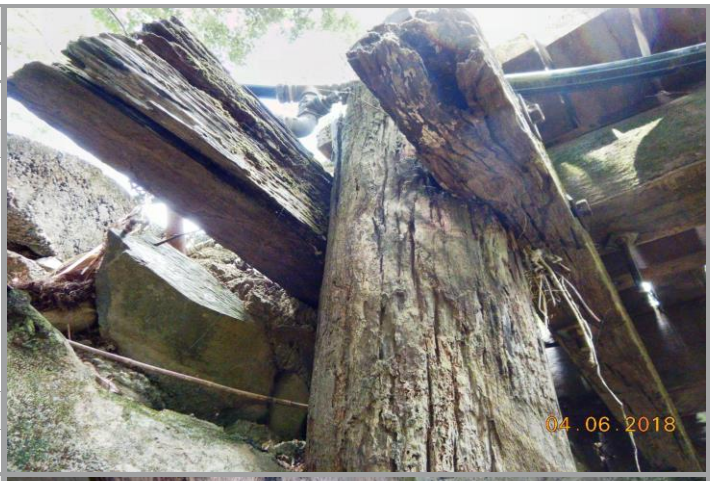
Modification:	Group:	Standard Number:	Component:
O	P1	56T	P
ID: DSCN5951.JPG		Inspection Date	4/06/2018
Description:			
Detail of splitting in Whale in Pier One Face One RHS			
Reference:		Sketch:	

Modification:	Group:	Standard Number:	Component:
O	A2	52C	ABS
ID: DSCN5953.JPG		Inspection Date	4/06/2018
Description:			
Abutment Two			
Reference:		Sketch:	

Modification:	Group:	Standard Number:	Component:
O	A2	54T	H
ID: DSCN5955.JPG		Inspection Date	4/06/2018

Description:
Detail of rot in Abutment Two Headtsocks

Reference: Sketch:



Modification:	Group:	Standard Number:	Component:
O	A2	56T	P
ID: DSCN5957.JPG		Inspection Date	4/06/2018

Description:
Detail of split and rot in Abutment Two Pile Two

Reference: Sketch:

Modification:	Group:	Standard Number:	Component:
O	A2	56T	P
ID: DSCN5954.JPG		Inspection Date	4/06/2018

Description:
Detail of fully depth split in Abutment Two Pile One

Reference: Sketch:

Modification:	Group:	Standard Number:	Component:
O	A2	56T	P
ID: DSCN5956.JPG		Inspection Date	4/06/2018

Description:
Detail of Lichen growth in Abutment Two Pile Two

Reference: Sketch:

Structure Maintenance Schedule

A4

Structure ID:	8011	Name:	Poletti Road Bridge - 2 Span Timber brid
Crossing:	Saltwater Creek	Road Number:	
Structure Type:	Bridge	Road Name:	Poletti Road
Construction Type:	Girder	Owner:	Douglas Shire Council
Construction Material:	Timber	District:	Miallo
Inspector:	Mark de Hayr	Local Authority:	DSC
Latitude:	-16.407509	Longitude:	145.356155
Inspection Date:	4/06/2018	Max Height (M)	4.5
Next Inspection Date:		Width (M)	4.5
Total Length (M)	18		
Chainage (Km)		From	To

Inspection Level 2 ☑ Level 3 ☐ Programmed ☑ Exceptional ☐ Underwater ☐

Defect Comments

Bridge is in Overall Poor Condition. The Snipes/notching have been incorrectly applied in most girders and could be rectified through anti split treatments. Pile Two has been previously Spliced at mid height. Pile Three in Pier is completely rotted through and the load is expected to be currently only be supported through the bracing timber. The Wale in Face Two in the pier (at Pile 3) has split resulting in no support. Piles 1 and 2 in Abutment Two are in CS3 from dill testing but have been elevated to CS4 due to loss of section from surface rot from being in contact with the concrete abutment sheeting. The distributors have missing/insufficient fixings. A "Fender Pile" has been installed by Council on the RHS of Pier One - This is not considered to be significantly adding to the Structural Capacity of the structure.

Girder One and Four in Span One and Girders Three and Four in Span Two have 20-30mm (40-60mm of effective dia) loss of sapwood through surface rot and would be classed in CS3 without the over sniping issue.

RECOMMENDATIONS: As per the Timber Bridge Inspection Manual - Pile Two has previously been Spliced and Pile Three is in CS4 there is no option but to fully replace one or more of the Piles in the Pier or to replace / upgrade the existing structure. Piles One and Two in Abutment Two should be replaced.

SUGGESTIONS: The addition of further Guideposts in the approach is suggested. Advance warning signage of "Load Limited Bridge Ahead" at the intersection of Syndicate Road and Poletti Road is warranted.

Structure ID:	8011	Bridge Name	Poletti Road Bridge - 2 Span Ti	Road Name:	Poletti Road
Inspection Date:	4/08/2018	District:	Miallo	Authority:	DSC

Inspectors Comments:

Summation of Defect Maintenance costs is indicative only. Final costs to be determined by Authorities existing practices

Stewards_Comments:

To Be Advised - upon completion of Maintenance Activities

Total MTCE Backlog Amount	**$64,428**

Maintenance Schedule M1

Modification Group/ Component/ StandardNumber ComponentName: O AP1 AP 70O Approach

Inventory Comments
Install Additional Approach Delineation, install additional advanced warning sign at Syndicate Road intersection

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
APP01	Add Approach Delineation	Each	3	$110.00	$330.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O AP2 AP 70O Approach

Inventory Comments
Install Additional Approach Delineation

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
APP01	Add Approach Delineation	Each	3	$110.00	$330.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O A1 P 56T Piles & Encasements

Inventory Comments
Replace Pile

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR61	Replace timber pile	each	1	$3,267.00	$3,267.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O S1 G 22T Girders

Inventory Comments
Replace Girders

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR10	Replace timber girder	each	3	$5,794.00	$17,382.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O P1 P 56T Piles & Encasements

Inventory Comments
Replace Pile and Whales

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR68	Add new braces/wales - timber	m	2	$279.00	$558.00	2	☐
TR61	Replace timber pile	each	1	$3,267.00	$3,267.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O S2 G 22T Girders

Inventory Comments
Replace Girders

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR10	Replace timber girder	each	3	$5,794.00	$17,382.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O A2 H 54T Headstock

Inventory Comments
Replace Headstock

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR56	Replace headstock in timber	each	2	$4,650.00	$9,300.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O A2 P 56T Piles & Encasements

Inventory Comments

Replace Pile

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
TR61	Replace timber pile	each	1	$3,267.00	$3,267.00	2	☐

Modification Group/ Component/ StandardNumber ComponentName: O P1 COR 27T Corbels

Inventory Comments

Replace Corbel

ActivityNo:	Description:	Unit:	Qty	UnitRate:	Amount:	Priority:	Completed
R13	Replace Fasteners	P/SU	1	$9,345.00	$9,345.00	2	☐