

WAAAF Creek Walk – a project of the Rotary Club of Tocumwal Concept Plan Report- Rev A

August 2019

Berrigan Shire Council, Tocumwal Rotary and Tocumwal Farmers Market &
Liesl Malan Landscape Architects

LM·LA

Acknowledgements

Acknowledgement of Country

We acknowledge the Elders past, present and future and the Traditional Peoples whose lands includes Tocumwal.

Acknowledgements

Berrigan Shire Council

- · Matt Hansen Director Corporate Services BSC
- Jo Ruffin Strategic and Social Planning Coordinator BSC

Tocumwal Rotary Club

- · Kerry Davies
- · Anne Pyle,
- · Sally Ivonne
- · Bob Adam,

Tocumwal Farmers Market

• Representatives from the Tocumwal Regional Farmers Market

The Project Team

Liesl Malan Landscape Architects were the lead consultants for this project.

Team members:

- Liesl Malan Registered Landscape Architect
- · Claire Reynolds Registered Landscape Architect
- · Georgia Carroll Graduate Landscape Architect
- · Deepthi Kurian Graduate Landscape Architect

Disclaimer

Glossary

BSC - Berrigan Shire Council

TRC - Tocumwal Rotary Club

TFM - Tocumwal Farmers Market

LMLA - Liesl Malan Landscape Architects

Note

Outlined text provides hyperlinks to further information. Please use the PDF version to access these links.

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Two WAAAF flight mechanics checking aircraft engine components at RAAF Station Tocumwal, 1944. C291700 - Australian War Memorial

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Executive Summary

A path to link Tocumwal's visitor accommodation with Golf Course and Splash Park



WAAAF' Recruitment Poster

This project is a collaborative initiative between Berrigan Shire Council, Tocumwal Rotary and the Tocumwal Farmers Market. It has been undertaken to further improve Tocumwal for the community. It supports the works being undertaken at the Foreshore by improving connections and access.

Improved connections for Tocumwal

Tocumwal has been identified by Berrigan Shire Council as a key visitor destination and a growing township within the LGA. This project is an upgrade to an existing trail to improve pedestrian and cyclist access for locals and visitors. The overall concept plan connects Tocumwal via a continuous shared path to the Town Walk, Bird Walk, Riverside Walk (proposed), Levee Walk (proposed). This path network will link the town centre, foreshore, splash park, Town Beach, Tocumwal Golf Course (future museum), Tocumwal PS, Sacred Heart School, Preschool, Kelly St Reserve (off the leash dog park) and 5 hotels/motels. It will improve the livability of Tocumwal at the town scale.

A staged approach

The plan has been staged to priortise addressing safety concerns first. Other works have been developed as small projects, able to be undertaken independently of each other. Staging and project division ensures that the works are of a manageable scale

Tocumwal History Showcased

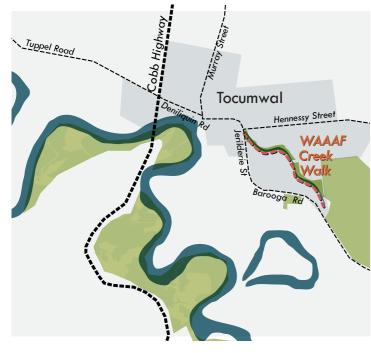
Tocumwal's history during WWII is an asset for the town to build on. Not only was it home to the largest Aerodrome in the southern hemisphere, it was also the largest encampment of the Women's Australian Air Force Auxiliary Force (WAAAF). This project continues the preservation of the route the WAAAF used to access the town centre. The plan includes interpretation opportunities and feature elements to tell stories of the Tocumwal Airbase WAAAF. The role of the WAAAF in WWII and the role of women in Australian society will provide context and meaning to the story. This is an opportunity to pass on important Australian heritage to the next generation.

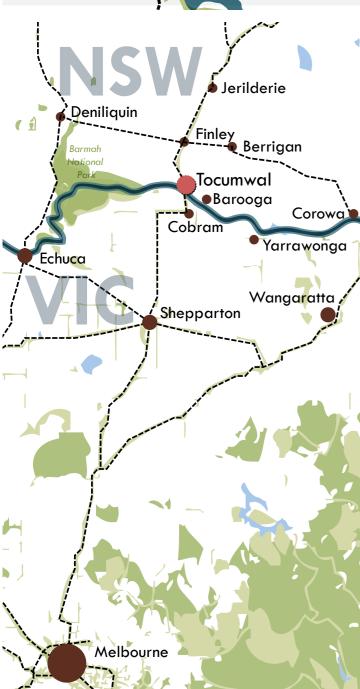
Habitat and environmental improvements

The plans propose a staged revegetation program coupled with weed management and tree management to revitalise the creek environment. The proposal is designed to improve the ongoing maintenance issues within the creek environment, in the long term.

Project Background

Introduction & Context





What triggered this Concept Plan?

Tocumwal Rotary (Rotary), Berrigan Shire Council (BSC) and the Tocumwal Farmers Market commissioned the WAAAF Creek Walk Concept Plan.

The trail has been maintained by Rotary for the last 20 years. Maintenance of the site has been getting more difficult as Rotary members are getting older. There is concern that the creek is becoming unsightly (weeds). The community want to tell the WAAAF story and frame it for a contemporary audience.

Purpose of Concept Plan

- Review the existing trail and upgrade to improve access and, where appropriate, meet DDA requirements. The path may not necessarily provide full DDA access to all areas and signage and interpretation may need to be considered to offer those with mobility challenges alternative ways to enjoy the WAAAF Walk experience
- Provide a path along the southern side of the Creek only
- Consider safety aspects for golf buggy and mobility scooter users and options to restrict vehicle access to the Walk (other than maintenance vehicles)
- Strengthen and improve connections to the northern side of creek and connect to existing road and pedestrian network where possible
- Incorporate opportunities to connect the WAAAF Walk to the Murray River (near existing water treatment plant)
- Incorporate opportunities to connect the WAAAF Walk to the Tocumwal CBD and the Foreshore
- Develop a Concept Plan which provides a conceptual overview of the WAAAF Creek Trail with more detailed plans (zoom-ins) required for key areas and creek crossings

Previous Reports, Plans and Strategies

- Tocumwal Pedestrian Access And Mobility Plan
 Des Gunn Landscape Design/ Berrigan Shire
 Council Adopted 16th July, 2014
- Tocumwal Town Concept Plan 2015 LMLA
- Tocumwal Foreshore Masterplan 2016 -LMLA
- Berrigan Shire 2027 Our Community Strategic
- BSC Tourism Strategy 2014-2018 Berrigan Shire Council
- BSC Active Ageing And Disability Inclusion Plan - Disability Inclusion Action Plan -2017 – 2021

How to use this report

The Report has been divided into a series of individual projects. This Report has been written based on the current priorities. Delivering the Plan will require flexibility in priorities to be responsive to funding/resourcing opportunities. Each project section in the Report can be separated. The sections can be used to;

- · form the basis of a brief
- support funding applications
- facilitate discussions with relevant authorities
- · coordinate projects internally
- support press releases
- engage and empower community members to contribute to achieving the overall vision for The WAAAF Creek Trail

WAAAF History at the creek & Tocumwal

This creek-side trail linked the Tocumwal town centre with the largest airforce establishment in Australia. At its peak, 4,581 RAAF servicemen and 422 WAAAF service-women served on the base.

The WAAAF's were essential to the running of Tocumwal Aerodrome. They were involved in signals communications, flying administration, aircraft, engine, instruments and parachute maintenance, transport, stores and offices as well as more traditional roles in the mess hall, laundries and offices.

They are proud of their service. The WAAAF were needed by the Air Force and they fulfilled their roles with flair and competence. They were considered to make a double contribution to the war effort, as their work released many men for active duty. It should be noted that the WAAAF were, however, paid 2/3rd (or less) the equivalent ranked pay of a service-man.

Tocumwal Aerodrome was a culture shock after their sheltered family lives. Conditions were communal and spartan with 28 women to a cottage. Learning trades and working alongside men, were new challenges. Male/female ratio was ten to one. They worked 6.5 days a week and had a full social life. They made time to make curtains and flower beds for their huts. Dances, engagements and weddings brightened the hard times. They recall the time with happiness.

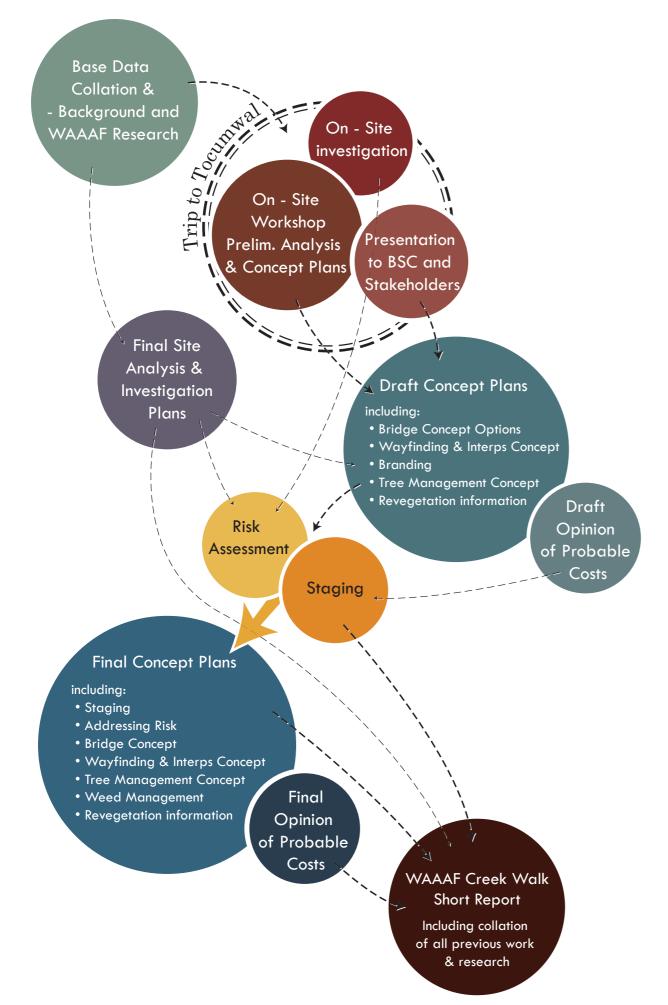
"it was a terrible time, it was a horrific time, but you wouldn't have missed it for anything because it gave us a different outlook on life, it made us more understanding of a lot of things and it made brothers and sisters of a lot of people who would never have known each other otherwise."

Judy Stone, WAAAF

Joanna Penglase and David Horner, When the War Came to Australia, Allen and Unwin, Sydney, 1992 pages 49 - 50, 245

Project Process and Community Input

A community driven project



The following design process was undertaken:
On site investigation, workshop &

On site investigation, workshop & presentation

- LMLA walked the creek with BSC and Rotary members to discuss site opportunities and constraints. Links to town were investigated and confirmed on foot
- Hand drawn analysis & concept plans were developed on location to confirm the outcomes of the site visit
- A workshop meeting with BSC and Stakeholders was held to discuss the plans and findings
- The plans were shared with other interested community members for their feedback

Draft Concept Plans

- A concept plan with integrated path system to connect to Tocumwal's existing path network was developed
- · Zoom-in plans covered the whole trail
- Wayfinding and interpretation elements were developed
- Tree management and revegetation information was developed
- · A Draft OPC was created to liaise with BSC
- Rotary discussed the plans and voted to adopt all elements with minor tweaks
- BSC presented the plans to the Councillors who asked that the plans address risk issues first, reduce the scale of the plan & its aspirations and identify staging for projects

Final Concept Plans

- The feedback directed changes to the plans, concepts and OPC
- A risk management analysis was undertaken with BSC input
- Staging was developed in collaboration with BSC and Rotary
- Wayfinding, interpretation and revegetation concepts were further developed
- · The Report was finalised



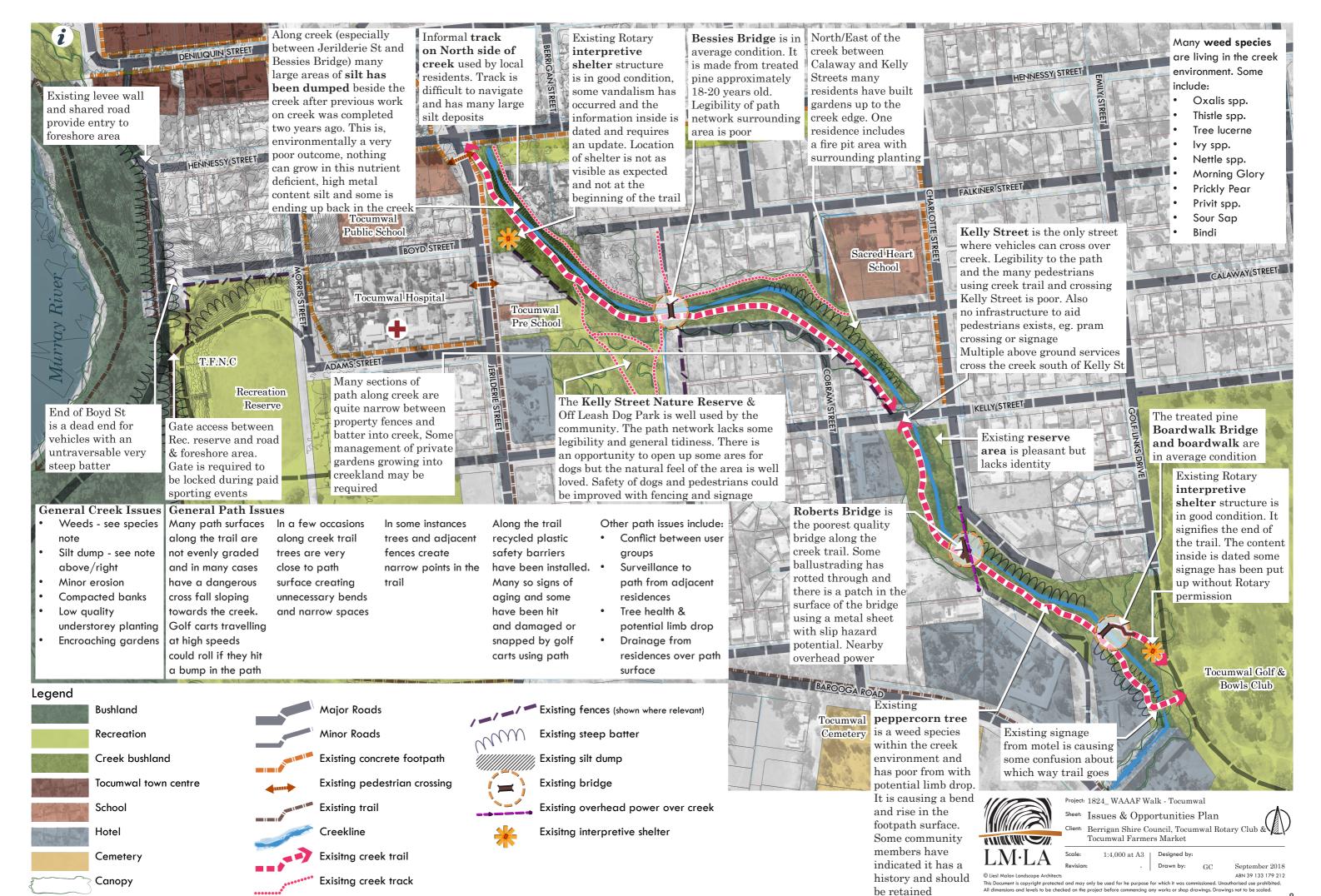


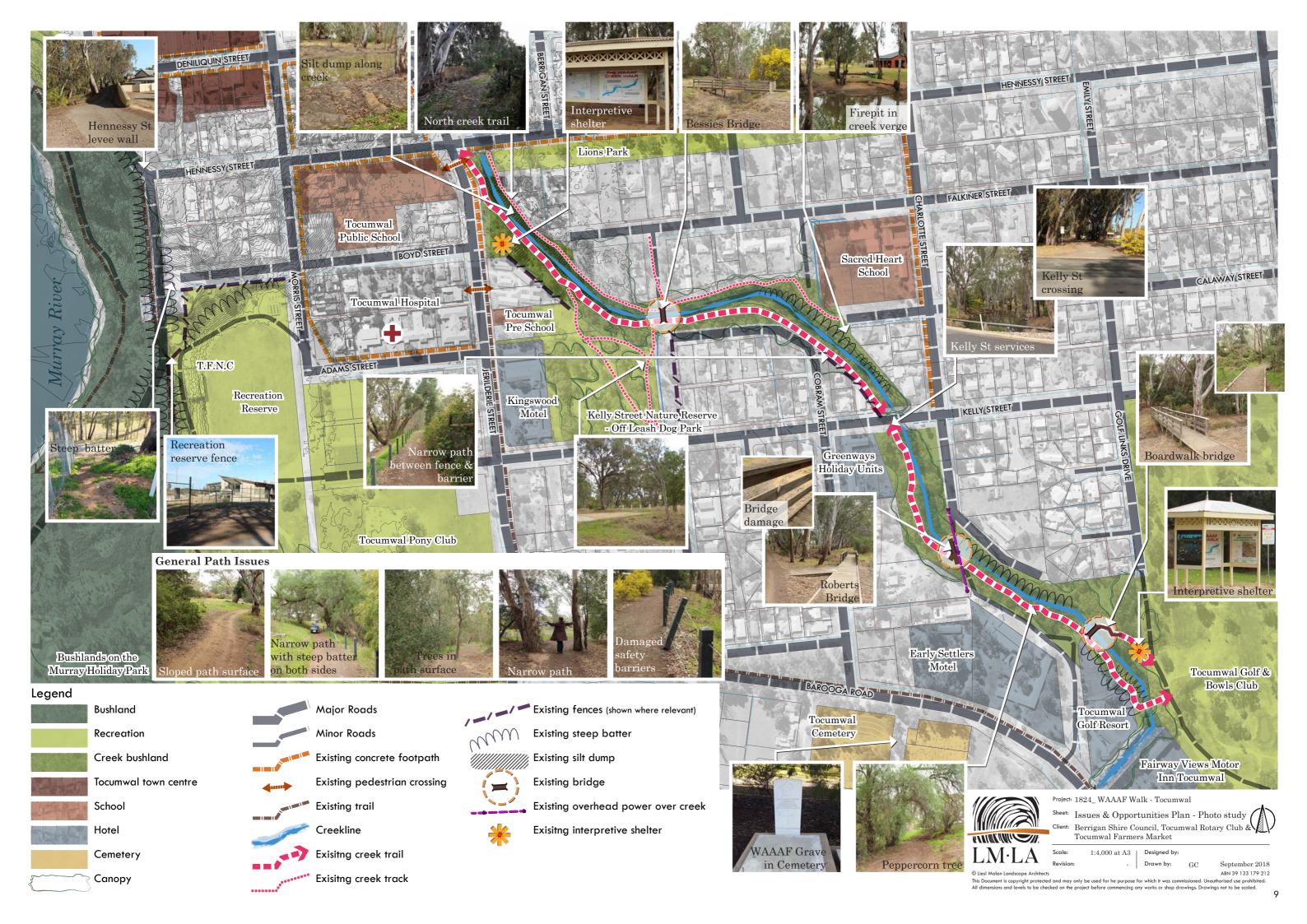


WAAAF's picnic by the Murray River - Tocumwal Historic Aerodrome Museum

Analysis and Risk Assessment







Risk Assessment

Prioritising safety

Risk focused approach

BSC requested that the works prioritise risk issues. LMLA has undertaken a risk assessment in collaboration with Michelle Koopman Enterprise Risk Manager BSC. Definitions of risk type, consequence, likelihood and risk level are all based on the Risk Management Policy & Framework 2017.

Staging

The level of risk and the type have been used to determine which works should be prioritised into Stage 1. Some works are more cost-effective if undertaken with other works e.g. the path resurfacing and grading of the track. These works have therefore been grouped in the same stage.

Refer Berrigan Shire Council Policy 17 Risk Management Policy & Framework Version 04 March 2017

| on the itian management i one, or i rain. | ework 2017. Have therefore been grouped if | | | | | | | |
|---|--|---|---------------------|-----------------------|-----------------|--|-------------------------|----------|
| Hazard | Risk | Risk Type | Consequence (1 - 5) | Likelihood (A - E) | Risk Level | Recommendations | Stage | \$ |
| At the Kelly Street road crossing vehicles have low awareness of pedestrians & cyclists using Creek Walk | Vehicle could hit pedestrian crossing street | Public Liability | 5 | С | High | Install signage to indicate to vehicles pedestrian crossing | Stage 1 | \$ |
| Golf carts travelling along Creek Walk at high speeds under hazardous circumstances | Pedestrian or cyclist could get hit by or hurt while trying to avoid golf cart | Public Liability | 4 | С | High | Restrict access to Creek Walk for Golf Carts | Stage 1 | \$\$ |
| Trees with dieback | Limb drop onto pedestrian or cyclist could cause injury | Public Liability | 3 | В | High | Arborist assessment of trees along creek walk and subsequent management | Stage 1 | \$\$ |
| Ageing bridge infrastructure | Damage or collapse could occur during use and cause injury | Public Liability | 3 | D | Medium | Replace bridges using robust and long lasting materials | Stage 1 | \$\$\$ |
| Kelly Street road crossing no pram crossings | Difficult to traverse kerb could cause accident between Creek Walk user eg. Mobility scooter and vehicle | Public Liability | 3 | D | Medium | Install pram crossings in kerb to allow access for all abilities crossing | Stage 1 | \$ |
| Damaged safety barriers | Pedestrian could fall through gap and down slope or fall onto sharp damaged bollard fencing | Public Liability | 3 | С | High | fix existing damaged elements. Consider replacement of recycled plastic bollard with more robust product | Stage 1 | \$\$ |
| Slope on path | Slip risk for pedestrians, roll potential for golf carts | Public Liability | 2/3 | В/С | Medium/ High | Implement coir logs & gabion baskets in path design to regrade path surface (undertake at same time as addressing uneven path surface) | Stage 1 | \$\$ |
| Uneven path surface, can be wet and muddy, some areas of silt dump from creek clearing works | Slip and fall risks for pedestrians | Public Liability | 2 | D | Low | Re-surface path with smooth gravel finish (undertake at same time as addressing slope on path) | Stage 1 | \$\$ |
| Dogs from Kelly Street Nature Reserve off-leash dog park | Dogs run out in front of cars from park, may cause vehicles to swerve and have a traffic accident | Public Liability | 3 | В | High | Install fence along front of reserve | Stage 1 | \$ |
| Track North of creek has silt dumps creating uneven ground | Trip and fall risks for pedestrians | Public Liability | 2 | В | Medium | Remove silt and provide even ground along informal track | Future | \$ |
| Ageing and damaged furniture | Injury risk if person sits on unstable, deteriorating furniture | Public Liability | 2 | С | Medium | Replace furniture along Creek Walk | Public Open Space | \$\$ |
| No lighting along Creek Walk | Injury or incident occurs along Creek Walk during evening | Public Liability | 2 | С | Medium | Discourage evening use. Monitor and consider using solar lighting if required | Future | |
| Creek Walk legibility | Visitors get confused or lost due to inconsistent name of walk, insufficient detail regarding walk and poor signage and information available along the walk | Community & Government reputation | 1 | D | Low | Establish walk identity and name and install wayfinding signage along walk. | Interps & Wayfinding | \$\$ |
| High quantity of weeds within creek environment | Spread of weeds through creek reducing quality of environment downstream | Environment | 3 | С | High | Extensive removal of weeds and undertake revegetation of creek | Weeds & reveg. | \$\$\$\$ |

Bessies Bridge

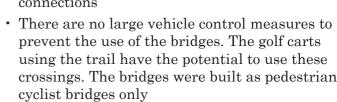


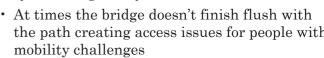
Robert's Bridge



Boardwalk Bridge







- Part of the boardwalk is overgrown with vegetation creating areas that don't achieve Crime Prevention Through Environmental
- The bridges are made with a treated pine structure and decking boards. The type of treated pine is unknown
- There are signs that significant repairs to structural elements and the decking have been







Treated pine has a limited lifespan

The expected lifespan of treated pine varies depending on type/ class and size of timber, as well as the site conditions. Serviceable lifespan expected for treated pine in these conditions is generally considered to be up to 20 years.











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Replaced timber

Bridge Assessment

Existing bridge quality

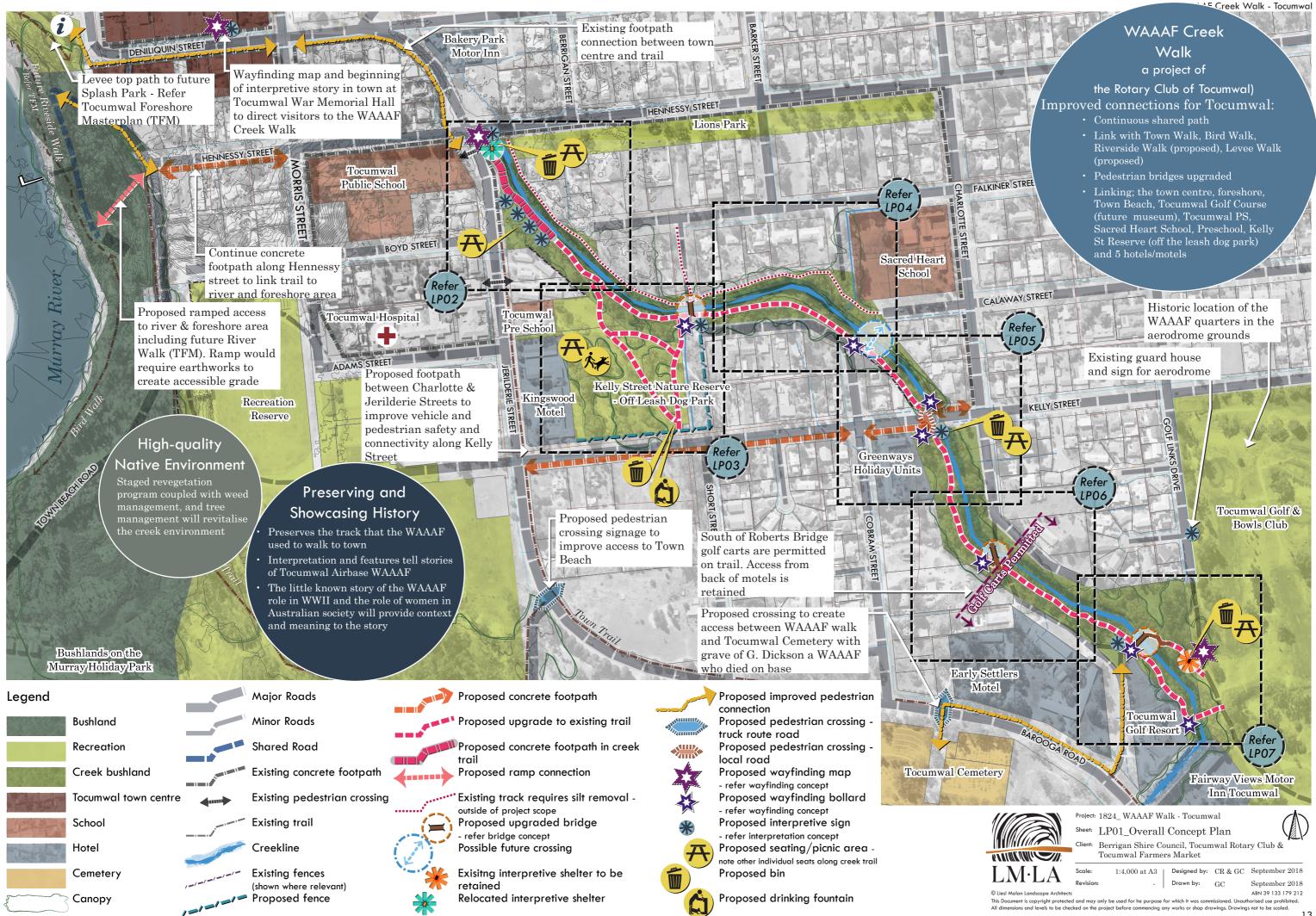
General bridge quality statement

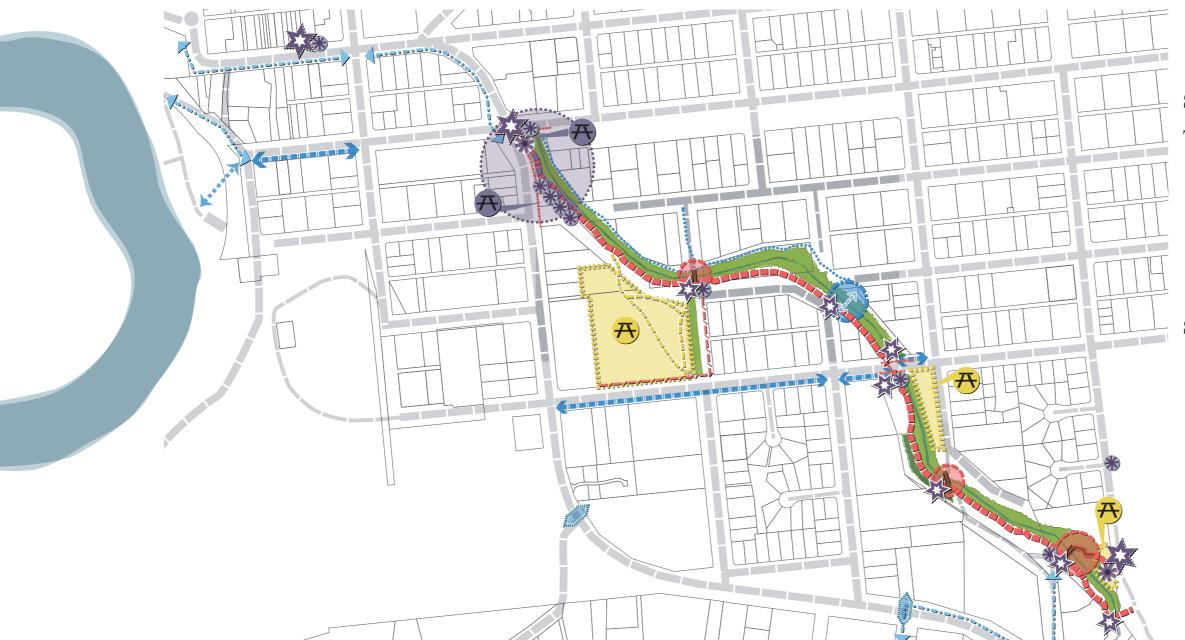
LMLA has undertaken a visual assessment of the bridge conditions. The following notes summarise their general condition:

- · The bridges and boardwalk are around 18 years
- · They provide valuable pedestrian and cyclist connections
- crossings. The bridges were built as pedestrian/
- the path creating access issues for people with
- Guidelines best practice outcomes. There have been complaints about public urination in this
- required recently

Masterplan and Staging







Staging Plan

Staging Rationale

The following approach to staging was identified:

- Prioritise projects in the Creek Walk environs based on addressing safety concerns (Stage 1)
- Break up the overall project into achievable small projects that will be able to apply for funding grants or be championed by the community
- · Refer to the Risk Assessment section of this report for more information

Staging

Stage 1 – Path Works and Safety Priority



Public Open Space Stages



Wayfinding & Interpretation Stage



Weed Control & Reveg. Stage



Works outside of Project Scope

Legend

Proposed upgrade to existing trail



Proposed upgrade to Kelly Street Crossing Proposed upgraded bridge



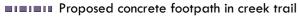
Proposed post & rail fence



Public open space areas

Proposed seating/picnic area

---- Proposed upgrade to existing path





Exisitng interpretive shelter to be retained Proposed wayfinding map Proposed wayfinding bollard Proposed interpretive sign



Proposed revegeation to creek



Proposed screening revegetation



Proposed future concrete footpath Existing track requires silt removal



Improved pedestrian connection



Proposed future pedestrian crossing - truck route road



Proposed future ramp connection



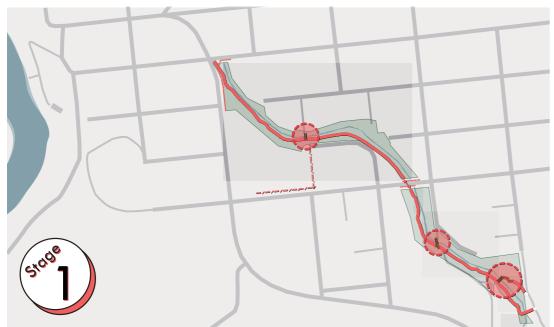
Possible future new bridge



Sheet: Staging Plan

Drawn: GC

October 2018



Stage 1 – Path Works and Safety Priority

- Path upgrades (surface and grading)
- Tree assessment and associated works
- · Bridge upgrades
- Fencing and golf cart access control points
- Fencing at Kelly Street Reserve
- Kelly Street Crossing

Individual Stages

Stage Order

- 1. Stage 1 should be completed first.
- 2. All other works can be undertaken independently of each other as funding opportunities arise. The works have been broken up to suit community organisations / members leading the works



Public Open Space Stages

- Kelly Street Nature Reserve - path upgrade, understorey clearing and furniture
- Charlotte Street / Kelly Street Picnic area
- Golf Club end of trail furniture



Weed Control & Revegetation Stage

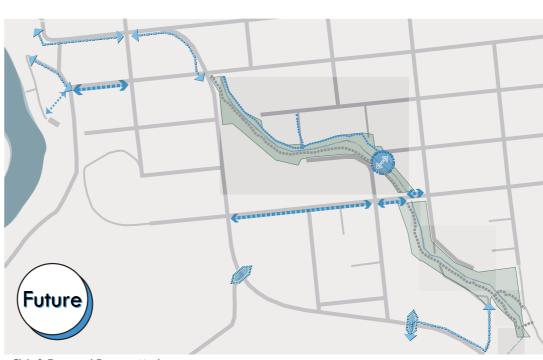
- Clearing creek of invasive weed species beginning upstream to minimise weed spread
- Revegetation of creek in small sections beginning upstream



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Wayfinding & Interpretation Stage

- Trailhead (including parking, picnic space etc)
- Relocation and refurbishment of existing shelters
- Interpretation signage
- Wayfinding signage



Works outside of Project Scope

- Track on north side silt removal
- Kelly St footpath
- Hennessy St footpath and ramp to river
- Crossings (signage only) over Barooga Road near the cemetery and bushlands
- Lighting along Creek Walk
- Future possible bridge at Cobram / Sacred Heart School

Estimate of Project Costs

Carefully planned and costed

| | ltem | Sub total | Contingency at 25% | Sub total inc contingency | GST 10% | Total |
|------|---|--------------|--------------------|---------------------------|-------------|--------------|
| Stag | ge 1 — Path Works and Safety Priority | \$443,325.00 | \$110,831.25 | \$554,156.25 | \$55,415.63 | \$609,571.88 |
| | Preliminaries and earthworks | \$23,000.00 | \$5,750.00 | \$28,750.00 | \$2,875.00 | \$31,625 |
| | Grading and retaining walls and associated path | \$56,350.00 | \$14,087.50 | \$70,437.50 | \$7,043.75 | \$77,481.25 |
| | Paths (not associated with grading works) | \$91,425.00 | \$22,856.25 | \$114,281.25 | \$11,428.13 | \$125,709.38 |
| | Kelly Street crossing - pram crossings & signage | \$1,500.00 | \$375.00 | \$1,875.00 | \$187.50 | \$2,062.50 |
| | Kelly Street Nature Reserve fencing | \$37,600.00 | \$9,400.00 | \$47,000.00 | \$4,700.00 | \$51,700.00 |
| | Access Control post & rail fencing and bollards | \$82,450.00 | \$20,612.50 | \$103,062.50 | \$10,306.25 | \$113,368.75 |
| | Bridge and boardwalk upgrades | \$151,000.00 | \$37,750.00 | \$188,750.00 | \$18,875.00 | \$207,625.00 |
| | | | | | | |
| Pub | ic Open Space Stages | \$54,137.00 | \$13,534.25 | \$67,671.25 | \$6,767.13 | \$74,438.38 |
| | Kelly Street Nature Reserve | \$37,327.00 | \$9,331.75 | \$46,658.75 | \$4,665.88 | \$51,324.63 |
| | Kelly Street / Charlotte Street Picnic area | \$8,405.00 | \$2,101.25 | \$10,506.25 | \$1,050.63 | \$11,556.88 |
| | Golf Course Picnic area | \$8,405.00 | \$2,101.25 | \$10,506.25 | \$1,050.63 | \$11,556.88 |
| | | | | | | |
| Wa | yfinding & Interpretation Stage | \$190,760.00 | \$47,690.00 | \$238,450.00 | \$10,395.00 | \$114,345.00 |
| | Trailhead including preliminaries, concrete footpath, shelter relocation & refurbishment and car park | \$107,600.00 | \$26,900.00 | \$134,500.00 | \$13,450.00 | \$147,950.00 |
| | Wayfinding & Interpretive signage (including shelter display) - research, curation, copy writing, graphic design, form design & detailing, fabrication and installation | \$74,000.00 | \$18,500.00 | \$92,500.00 | \$9,250.00 | \$101,750.00 |
| | Furniture | \$9,160.00 | \$2,290.00 | \$11,450.00 | \$1,145.00 | \$12,595.00 |

Note

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Estimate of Project Costs

Carefully planned and costed

| Item | Sub total | Contingency at 25% | Sub total inc contingency | GST 10% | Total |
|---|--------------|----------------------------------|---------------------------|-------------|--------------|
| Weed Control & Reveg. Stage | \$293,635.00 | \$73,408.75 | \$367,043.75 | \$36,704.38 | \$403,748.13 |
| Design and documentation of revegetation works | \$15,000.00 | \$3,750.00 | \$18,750.00 | \$1,875.00 | \$20,625.00 |
| Revegetation. Stage 1. Upstream of boardwalk | \$30,385.00 | \$7,596.25 | \$37,981.25 | \$3,798.13 | \$41,779.38 |
| Revegetation Stage 2. Between Boardwalk & Robert's Bridge | \$49,900.00 | \$12,475.00 | \$62,375.00 | \$6,237.50 | \$68,612.50 |
| Revegetation Stage 3. Between Robert's Bridge & Kelly St | \$35,320.00 | \$8,830.00 | \$44,150.00 | \$4,415.00 | \$48,565.00 |
| Revegetation Stage 4. Between Kelly St & Bessies Bridge | \$79,000.00 | \$19,750.00 | \$98,750.00 | \$9,875.00 | \$108,625.00 |
| Revegetation Stage 5. Between Bessies Bridge & Hennessey St | \$44,770.00 | \$11,192.50 | \$55,962.50 | \$5,596.25 | \$61,558.75 |
| Revegetation. Stage 6. Kelly St Reserve Swale | \$27,520.00 | \$6,880.00 | \$34,400.00 | \$3,440.00 | \$37,840.00 |
| Revegetation screening shrub species | \$11,740.00 | \$2,935.00 | \$14,675.00 | \$1,467.50 | \$16,142.50 |
| Project total (excluding works outside of project scope) | \$443,325.00 | \$110,831.25 | \$554,156.25 | \$55,415.63 | \$609,571.88 |
| Works outside of Project Scope | \$294,700.00 | \$73,675.00 | \$368,375.00 | \$36,837.50 | \$405,212.50 |
| Removal of all silt dumps from north side of creek bank | | BSC - ongoing maintenance budget | | | |
| Concrete footpaths on naturestrips - Hennessy Street | \$48,000.00 | \$12,000.00 | \$60,000.00 | \$6,000.00 | \$66,000.00 |
| Concrete footpaths on naturestrips - Kelly Street | \$149,700.00 | \$37,425.00 | \$187,125.00 | \$18,712.50 | \$205,837.50 |
| Earthern Ramp in Foreshore | \$30,000.00 | \$7,500.00 | \$37,500.00 | \$3,750.00 | \$41,250.00 |
| Pedestrian crossing x 2 (signage only) over Barooga Road | \$1,000.00 | \$250.00 | \$1,250.00 | \$125.00 | \$1,375.00 |
| Lighting along Creek Walk at trail head area | \$30,000.00 | \$7,500.00 | \$37,500.00 | \$3,750.00 | \$41,250.00 |
| Possible bridge at Cobram/ Sacred Heart School | \$36,000.00 | \$9,000.00 | \$45,000.00 | \$4,500.00 | \$49,500.00 |

Berrigan Shire Council, Tocumwal Rotary Club & Tocumwal Farmers Market

Note:

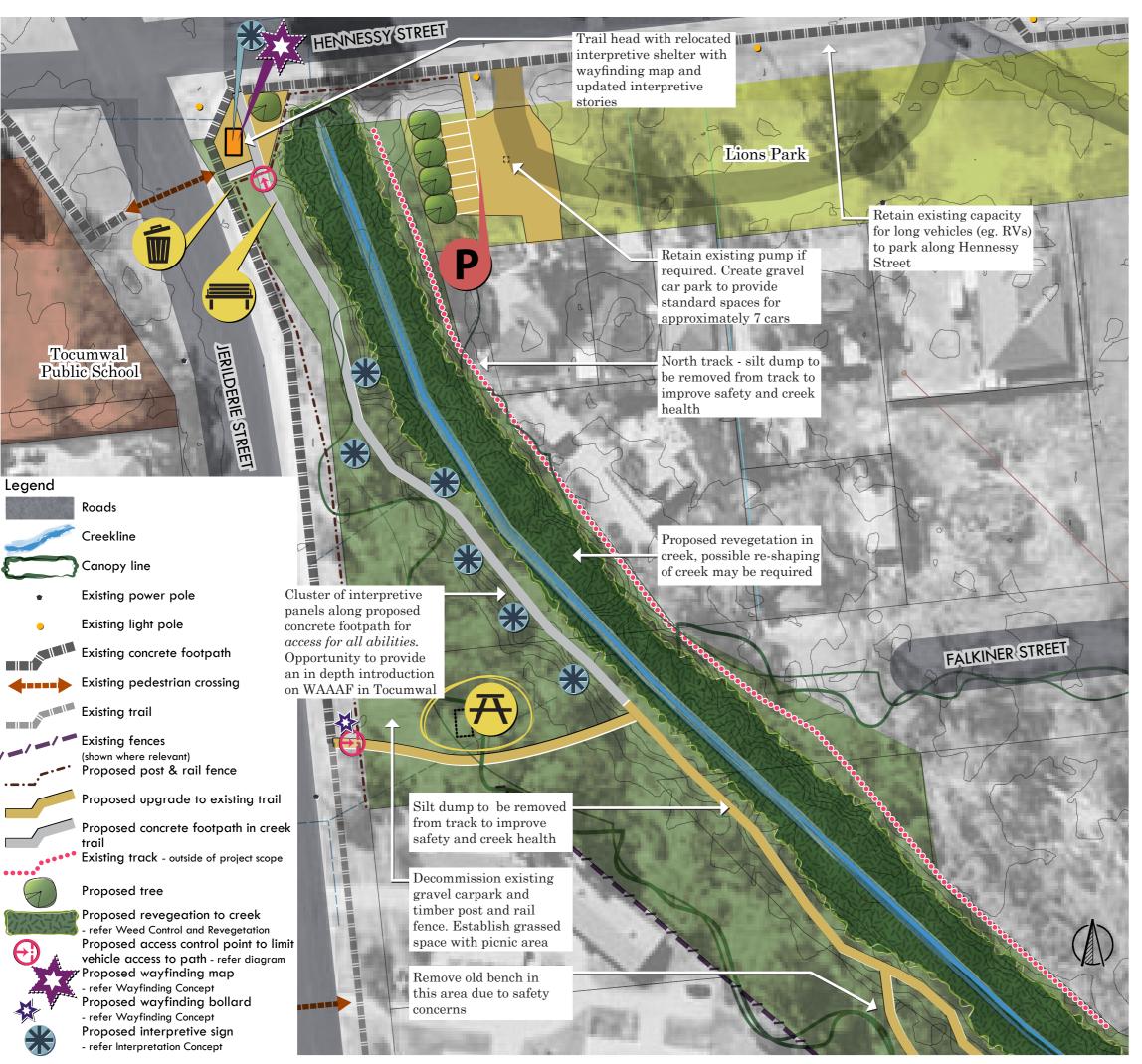
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17

Detailed Plans

WAAAF members performing maintenance on RAAF aeroplane, 1943 - Australian War Memorial





WAAAF Creek Trailhead

Access and Linkages

- Start of trail
- Links to Tocumwal PS, town centre, foreshore and Bird Walk
- A section of concrete path has been included to ensure access for all abilities at the interpretation
- Golf carts to be restricted from accessing this section of the trail

Interpretation and Wayfinding

The main display of interpretation with all abilities access

- Relocate existing shelter and include wayfinding map and honour role of WAAAF who served at Tocumwal Airbase
- Stories to be covered: the largest encampment of WAAAF, life on base, life in town, work of WAAAF (general and at Tocumwal), contrast to pre and post-war role of Women in Australia
- Refer to interpretation section of report for more detail

Uses and Activities

- Trailhead provides outdoor WAAAF museum
- The picnic area offers a passive outdoor recreation space tailored to the needs of families, grey nomads, visitors and the local community
- The shared path is part of an extensive network along the entire town and provides a range of outdoor recreation opportunities

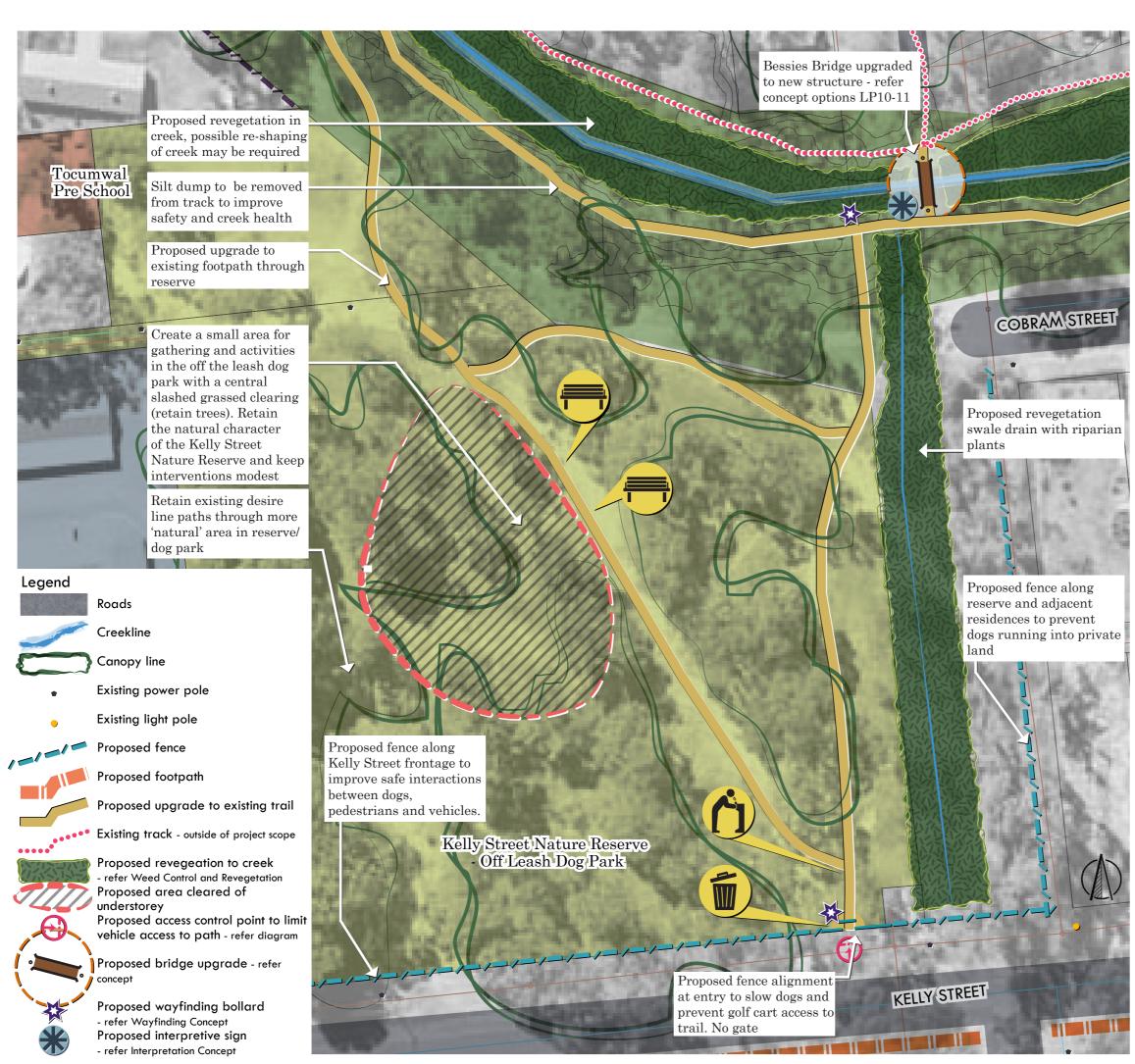
Revegetation and Maintenance

- Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- Plantings to address erosion issues near the Hennessey Street culvert
- This section of the creek will be the most visited and should be prioritised for weed control
- Due to the high number of visitors, this area should be prioritised for tree assessment and management



Sheet: LP02_ Jerilderie Street Concept Plan

Scale: 1:750 at A3



Dog Park and Bessie's Bridge

Access and Linkages

- Upgrade to existing bridge. This Bridge provides a link to the dog walking park for residents on the north side of Tocumwal
- New fence along Kelly street and residential boundary to contain off leash dogs
- Kelly Street Nature Reserve path upgrades to gravel surface paths as shown on the plan
- Golf carts to be restricted from accessing this section of the trail

Interpretation and Wayfinding

- · Wayfinding bollards to note trail
- Interpretation opportunity could be included near the bridge with easy access from Cobram Street for people with limited mobility

Uses and Activities

- Support dog walkers and path users with bin and drinking fountain
- Gathering space with seats to provide a central area for dog walkers to socialise with their pets
- The shared path is part of a large network along the entire town and provides a range of outdoor recreation opportunities

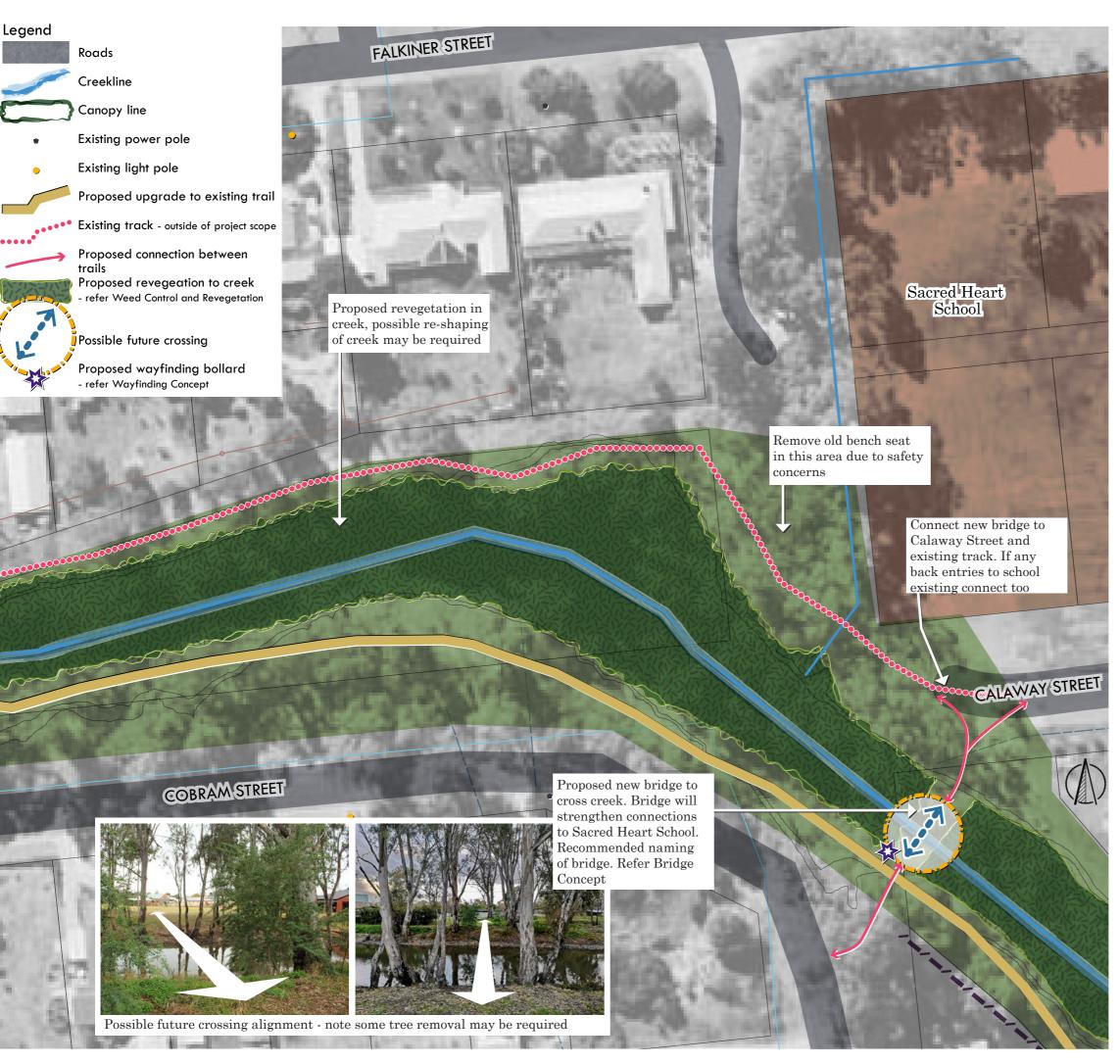
Revegetation and Maintenance

- Trees adjacent to the new bridge are to be assessed. The assessment should consider the impact of the proposed works on tree health. Some tree removal may be required to protect assets and limit risk to human lives
- Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- Any work within Kelly Street Nature Reserve will need to be discussed with Local Land Services (LLS) (authority over site)
- This area is to be included in the tree management plan. LLS may want to have input into the Tree management in Kelly Street Nature Reserve
- Revegetate Kelly Street Nature Reserve swale drain with riparian species
- Minor clearing of understorey plants (subject to the approval of authority) to create a gathering space



Sheet: LP03_Nature Reserve Concept Plan

Scale: 1:750 at A3



Cobram Street New Bridge

Access and Linkages

- Golf carts to be restricted from accessing this section of the trail
- Possible future pedestrian bridge over the creek could provide a direct link to Sacred Heart School for students and staff south of the creek

Interpretation and Wayfinding

- Wayfinding bollards to note trail
- Possible future pedestrian bridge to be named after a Tocumwal WAAAF

Uses and Activities

 The shared path is part of a large network along the entire town and provides a range of outdoor recreation opportunities

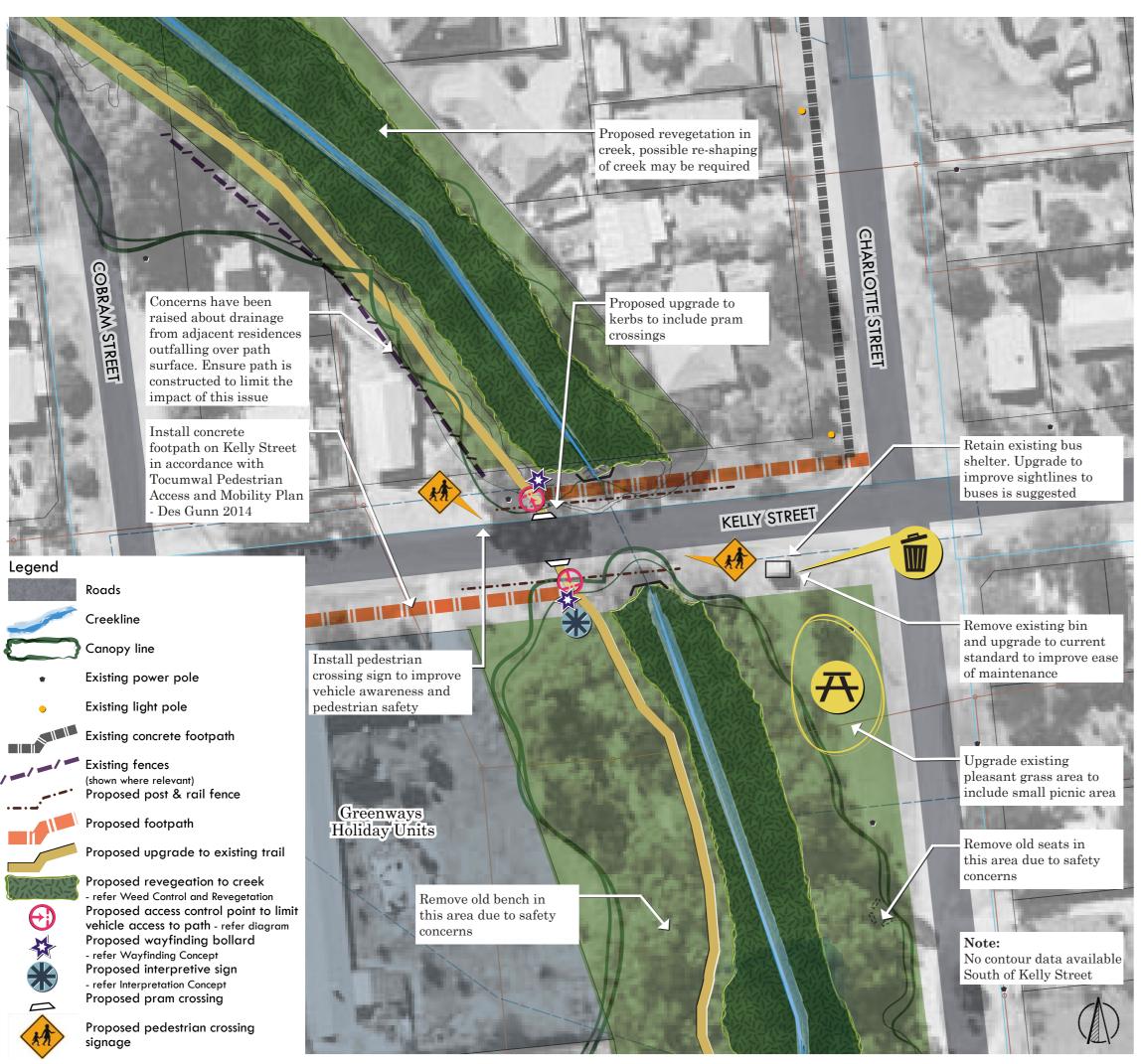
Revegetation and Maintenance

- Trees adjacent to the new bridge should are to be assessed. The assessment should consider the impact of the proposed works on tree health. Some tree removal may be required to protect assets and limit risk to human lives
- Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- This area is to be included in the tree management plan



Sheet: LP04_Cobram Street Concept Plan

Scale: 1:750 at A3



Kelly Street Crossing

Access and Linkages

- Upgrade to crossing to include pram crossing in kerbs and signage to note pedestrians cross at this location
- Golf carts to be restricted from accessing this section of the trail

Interpretation and Wayfinding

- · Wayfinding bollards to note trail
- Interpretation opportunity could be included near the Kelly street intersection with easy access from Kelly Street for people with limited mobility

Uses and Activities

 The shared path is part of a large network along the entire town and provides a range of outdoor recreation opportunities

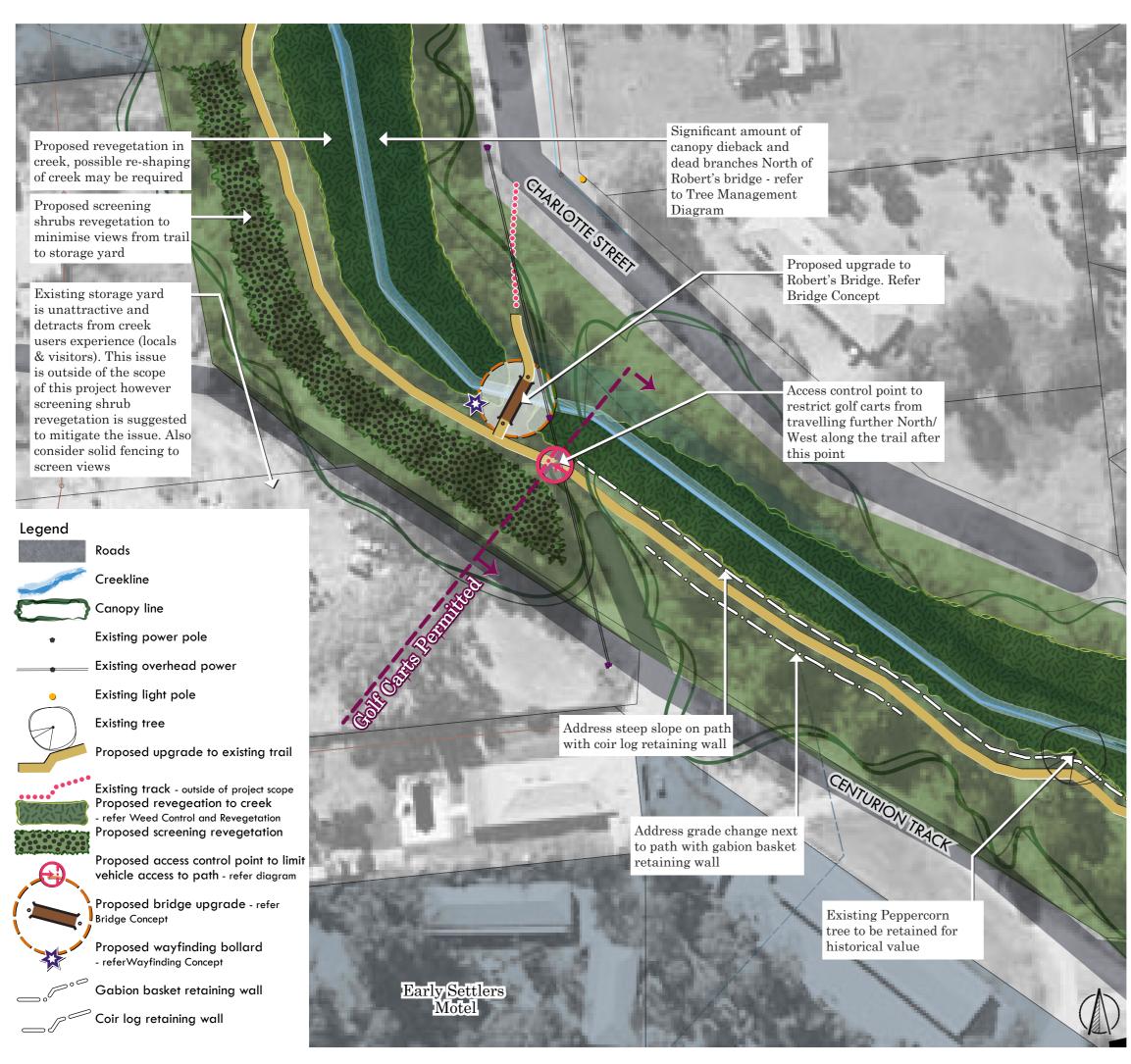
Revegetation and Maintenance

- This area is to be included in the tree management plan
- Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- Note ducks live in this area, and the local community loves them. Duck health and possible impact on plantings will need to be considered during works



Sheet: LP05_Kelly Street Concept Plan

Scale: 1:750 at A3



Robert's Bridge

Access and Linkages

- Upgrade to existing bridge
- Golf carts to be restricted from accessing the section of the trail north of Robert's Bridge.
- Access for golf carts from motels retained south of Robert's Bridge
- Regrade path to address steep cross fall and improve accessibility

Interpretation and Wayfinding

· Wayfinding bollards to note trail

Uses and activities

 The shared path is part of a large network along the entire town and provides a range of outdoor recreation opportunities

Revegetation and Maintenance

- Trees adjacent to the new bridge are to be assessed. The assessment should consider the impact of the proposed works on tree health. Some tree removal may be required to protect assets and limit risk to human lives
- This area is to be included in the tree management plan
- Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- Small retaining walls may be required to address the grade changes
- Note ducks live in this area, and the local community loves them. Duck health and possible impact on plantings will need to be considered during works



Sheet: LPO6_Robert's Bridge Concept Plan

Scale: 1:750 at A3

Boardwalk Bridge & Golf Course

Access and Linkages

- Upgrade to existing bridge and boardwalk
- Golf carts to be restricted from accessing this bridge and boardwalk but access from the motels and hotels to be retained and promoted

Interpretation and Wayfinding

- · Interpretation opportunity could be included near the bridge with easy access from Centurion Track for people with limited mobility
- · Retain and refurbish existing shelter
- · Include map overlaying old Tocumwal Airbase over existing conditions, links to the possible future museum, wayfinding for the WAAAF Creek Trail
- · Wayfinding bollards to note trail

Uses and Activities

- The shared path is part of a large network along the entire town and provides a range of outdoor recreation opportunities
- Golf cart access permitted for access to the Golf

Revegetation and Maintenance

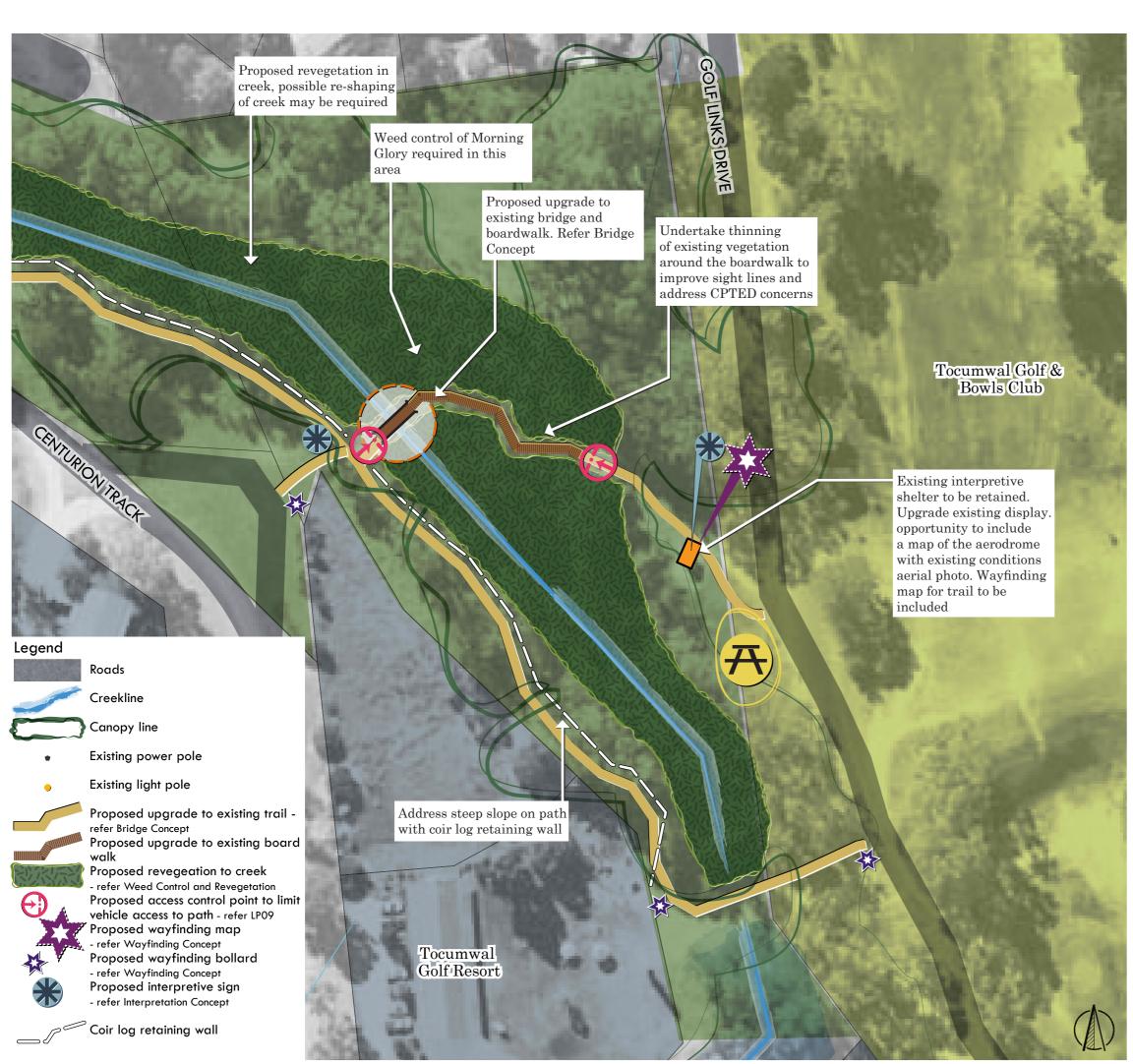
- Weed control including morning glory (extensive around boardwalk)
- This is the upstream section of the creek and should be prioritised for weed control and revegetation to limit the spread of weed
- Trees adjacent to the new bridge and boardwalk are to be assessed. The assessment should consider the impact of the proposed works on tree health. Some tree removal may be required to protect assets and limit risk to human lives
- This area is to be included in the tree management plan
- · Creek to be planted with indigenous riparian species as part of the staged weed management and revegetation works
- Small retaining walls may be required to address the grade changes
- Note ducks live in this area, and the local community loves them. Duck health and possible impact on plantings will need to be considered during works



Sheet: LP07 Boardwalk Concept Plan

Scale: 1:750 at A3

October 2018





Tocumwal WAAAF - Mary Halliday Good conduct certificate - image C Schomberg_Facebook post

Addressing Risk as a Priority



Tree Management Shady and safe



Healthy trees and a safe trail

The creek tree canopy is almost 100% eucalyptus. They make a significant and positive contribution to the creek aesthetically and environmentally. The community highly values trees.





Some areas of trees show signs of stress (die back and dead branches in canopy). It is normal for these trees to drop branches during times of stress such as drought or flood. This is a significant risk to public safety which will need to be mitigated. Broad-scale removal of trees will not be acceptable to community organisations or generally to Tocumwal Residents.

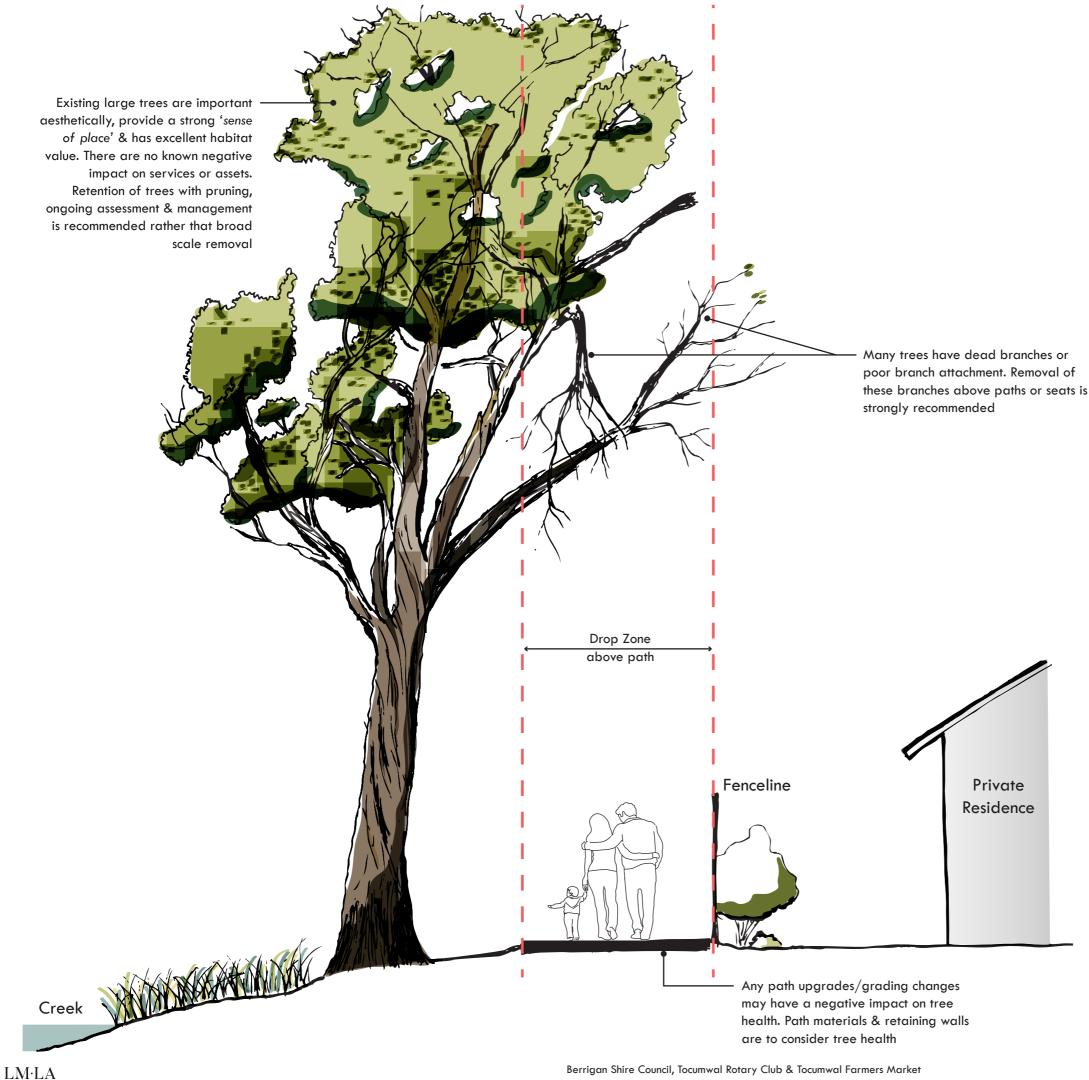
The Tocumwal Rotary Club are very concerned about tree removal and have asked to be informed if and why a tree requires removal.

Recommendations:

- Ensure seats, picnic tables, interpretive signage or other elements that encourage people to linger are not installed under the tree canopy
- · Commission a qualified arborist to create a tree management plan for the trail to promote tree health and a health bushland experience for
- Prioritise management of trees with limbs overhanging paths, picnic and seating areas



October 2018



Materials & Surfaces

Maintained within available resources



Existing grade and surface of path

There are areas of path with significant cross fall near the golf course end of the trail. This is a hazard for golf carts and don't provide *all abilities access*. The path surface is a well worn gravel or earth. The surface promotes a bushland feeling, however, would be difficult to use after rain. The width varies and at times it is not wide enough for golf carts and pedestrians.

Recommendations: Addressing grade changes

Level changes can be addressed using a combination of coir logs and gabion baskets. These methods have been suggested because they are

cost effective

LM·LA

 don't require footings which may impact on tree health

Path surface and width

The path surface will need to be replaced in areas where the crossfall is addressed. A compacted gravel path is recommended to ensure that the path provides adequate slip resistance in all weather conditions.

At the trailhead it has been identified that elderly visitors may have mobility challenges. A concrete path has been recommended to ensure all abilities access is provided.

A standard 2.5.m wide path is recommended. this should be implemented where space allows (note no survey was available at the time of the report).



Golf cart access issues

The path is not suited to golf cart use for the following reasons:

- The path not wide enough to share with pedestrians. Other facilities, regulatory signage and laws are not able to be enforced (speed limits etc)
- The carts are fast moving vehicles in a pedestrian environment
- There is damage to fencing (see below) which is likely to be caused by carts
- The bridges are accessible to some golf carts but are not designed to take the weight
- The community are concerned that cart drivers have consumed alcohol at the club and are a hazard to path users



Existing safety fencing

As a result of a previous risk assessment a safety barrier was installed to prevent falls into the creek. Sections of the fence have been hit by vehicles snapping the recycled plastic posts at ground level. Some wires have snapped and are a hazard to path users

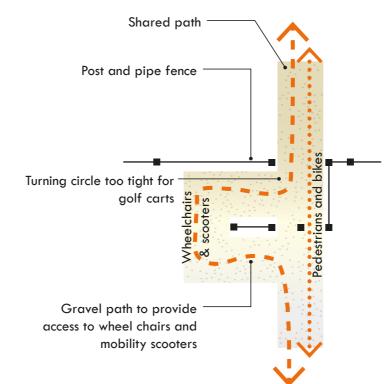
Recommendation

The safety fence should either be repaired or replaced with stronger materials eg steel posts / a bollard and pipe fence / a bollard and chain fence.

Recommendations:

Golf carts be restricted as shown on the plans

- fencing
- access control (points see diagram below)
- · regulatory signage



Access Control Point diagram

- Golf cart access restriction fencing

Controlling access

To address issues relating to golf carts the plans identify access control measures. They have been planned to restrict golf carts (large turning circle but not mobility scooters or wheel chairs (small turning circles)

Note: Golf cart access is permitted south of the boardwalk bridge, on the south side of the creek to allow access to the course from rear of nearby motels. Refer Overall Plan



Coir log retaining wall



Gabion basket retaining wall



Gravel Path Surface



Concrete Surface



Timber bollard Finish Hard wood



Bollard and pipe fence with timber bollard Finish Hard wood

Galv pipe

Proposed Materials Palette

We have selected materials that will suit the natural environment of the trail setting.

Surface Materials

The surfaces materials have been chosen in collaboration with Berrigan Shire Council to provide long lasting, easy to maintain finishes.

Existing furniture

There is a range of existing park furniture. All is past its serviceable lifespan. They do not provide access for all abilities. Most seats shows signs of rot and may collapse under an adults weight.

There are memorial plaques on some of the park benches to WAAAF and local community members.











Drinking fountain

Supplier:

Landmark

Unit:

Drinking Fountain KF502 with Side Tap &

Dog Bowl

Finish:

Powder Coat Black



Park bench

Supplier:

Landmark

Unit:

San Marco Bench K052

Finish:

Cast aluminium Hard wood timber



Park seat (with arms)

Supplier:

Landmark

Unit:

San Marco Seat KA002

Finish

Cast aluminium

Hard wood timber



Picnic table

Supplier:

Landmark

Unit:

San Remo K060

Finish:

Cast aluminium

Hard wood timber



Bin surround

Furniture Easy to maintain and accessible



Proposed Furniture Palette

We have selected materials that will suit the natural environment of the trail setting.

Furniture

The furniture have been chosen in collaboration with Berrigan Shire Council to provide long lasting easy to maintain public facilities. The furniture has been sourced with the following considerations:

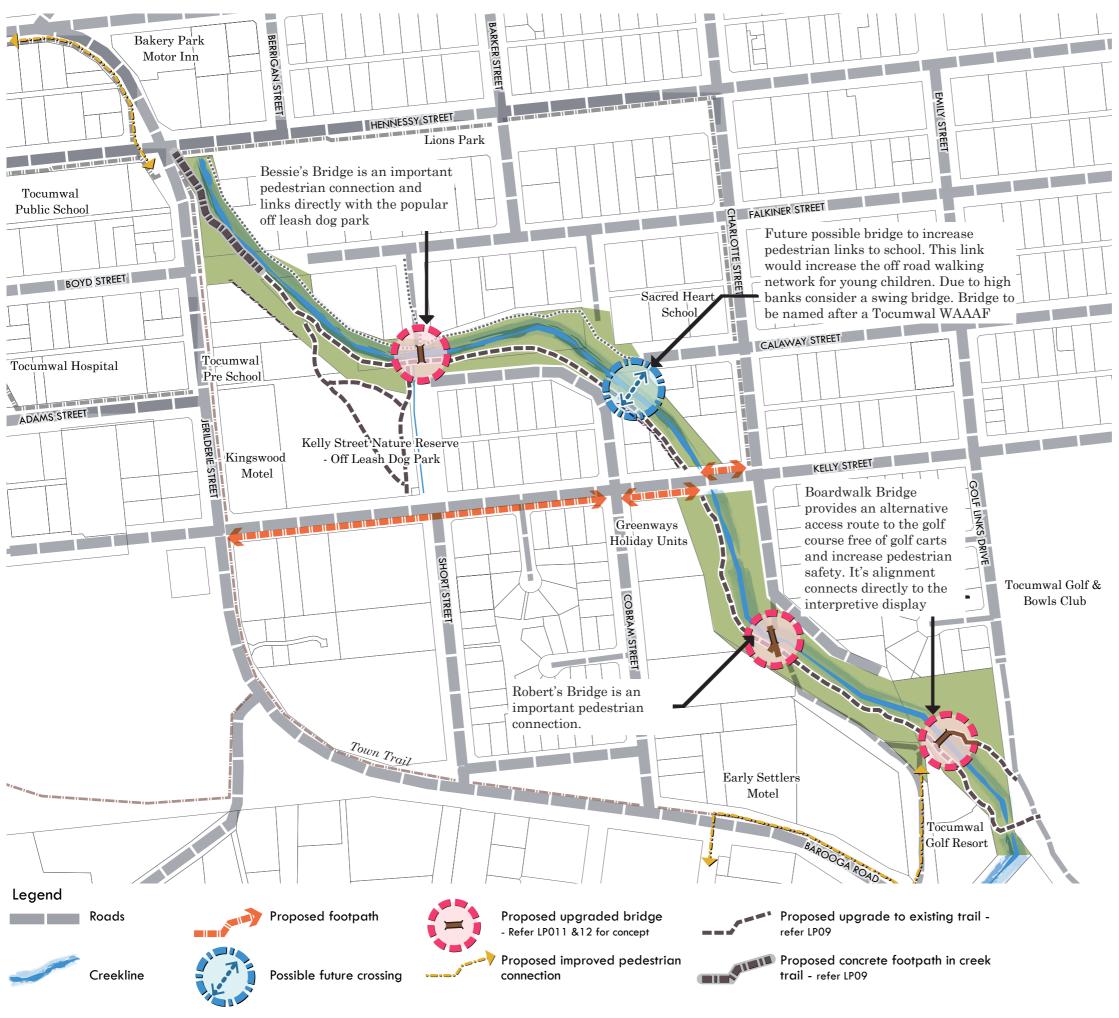
- · ease of maintenance and replacement
- · ensure high-quality products that are built to withstand vandalism, local climate conditions

The furniture finishes have been chosen to limit ongoing maintenance and consider the ease of replacement.

Recommendations:

- Ensure seats, picnic tables, interpretive signage or other elements that encourage people to linger are not installed under the tree canopy
- · Install new furniture
- · Retain and install existing plaques on new furniture





Bridge Crossings Safe and long lasting



The existing bridges are well used and provide meaningful pedestrian links. The infrastructure is ageing beyond its serviceable lifespan.

The community has identified a location for a possible future bridge. The purpose is to increase walking and cycling access to Sacred Heart School, and as part of the broader shared path network.

Recommendations:

- Replace bridges in the near future to avoid increased maintenance costs and risk issues
- New bridges should be made of materials with long lifespans in these conditions (refer to bridge concept)
- The possible future bridge should be considered when designing the replacement bridges to ensure that they work as a suite. Refer to the 'Future Work' section of this report for more information



Sheet: Bridge Location Plan

Scale: NTS

Drawn: GC Oct

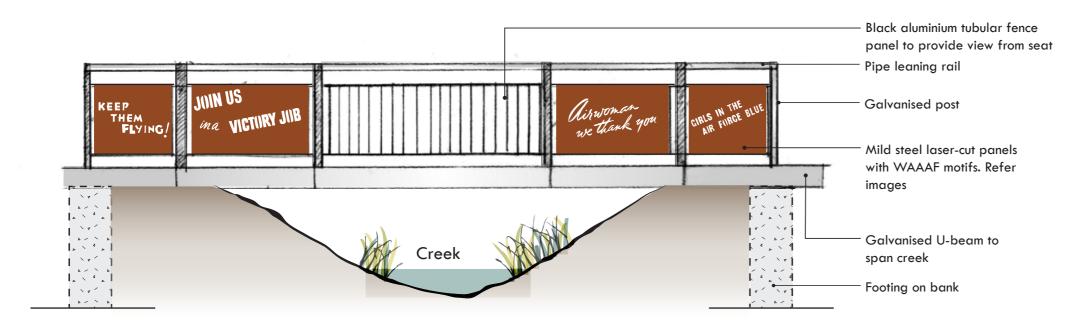
October 2018

Bridge Concept Safe and long lasting



Design and Construct Brief

- A simple steel sub structure to span the creek, ensuring that water flow is not impeded
- Able to be fabricated off site and installed with a crane truck
- feature panels provide visual interest and capture part of the WAAAF story with slogans used to recruit women during WWII. (Refer to the interpretation section of this report for more information)
- Viewlines down the creek corridor have been maintained with a central panel of tubular fencing



Elevation Scale 1:50







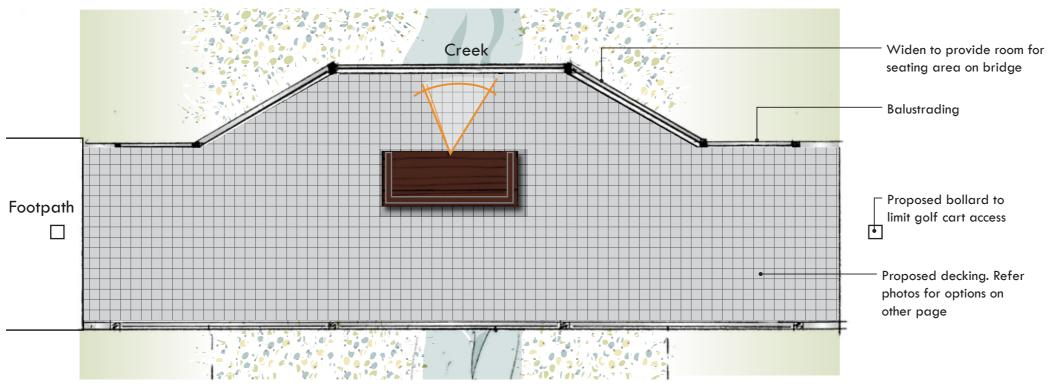






Bridge Concept Safe and long lasting





Plan - Option with bench Scale 1:50



Plan - Option without bench Scale 1:100



Replas -Enduroplank



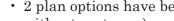
Mild steel





Laser cut mild steel

Note materials have been chosen for longevity in these site conditions. Deck materials have been chosen to be low slip & fire resistant. All materials are able to be pressure washed after flood event



Bridge plan options

- · 2 plan options have been developed (with and without seat area)
- ensure golf carts can not access the bridge

Materials

- All materials shall have good longevity in these site conditions
- · Deck materials have been chosen to be low slip & fire resistant.
- All materials are able to be pressure washed after flood event

Next steps

- · Bridges are to be designed including structural computations and shop drawings
- · Panels will require laser cut patterns to be developed. Ensure the writing reflects the typography of the era and is free os snags, and sharp points that may be a hazard. While the bridge is not a playground it is recommended, that finger entrapment be considered.



Expanded mesh

Galvanised post SHS



Sheet: Bridge Conept Plan & Materials

Scale: As shown at A3

Drawn: DK October 2018



W.A.A.A.F girls outside their sleeping quarters at Willaston - State Library of South Australia

Wayfinding and Interpretation



Wayfinding and Interpretation

Telling the WAAAF story



Interpretation

Interpretation provides a window into the history. It is essential that the stories told are of the place and can not be told any where else.

Stories that are of this place:

- encourage people to travel to Tocumwal to engage with a story that can't be heard/seen/read anywhere else
- enrich people's insight into the cultural history of Tocumwal
- ensure real and authentic stories

The way that the stories are written should put the 'You' into the story:

- · providing insight into what it would be like for 'vou' to be 'them'
- provoke an emotional response in the reader/ viewer

Keep the story clear by:

- curating the story into understandable themes (Thematic Interpretation)
- · using the themes as a vehicle to communicate how the facts impacted on the lives of people

Location of the signs has been considered to

- create a whole town experience that connects to future possible historical centre, the bird walk, foreshore, the town entry and railway station
- · signs are in locations that are close to the road for easy access (maintenance and people with mobility challenges)

Wayfinding

Golf Resort

Proposed upgrade to

Proposed interpretive sign

interpretive shelter

refer concept

A key principle of good wayfinding reassures visitors they are on the trail and are not lost

- The plan locates signage at points of decision or legibility issues
 - different scales of sign have been shown based on site needs



Sheet: Wayfinding & Interps. Location Plan

Drawn: GC October 2018

Bakery Park Motor Inn Proposed trailhead to provide single Proposed interpretation location for the core interpretation story and wayfinding signage_ and provide orientation for the rest of in town centre to the WAAAF Creek Walk. strengthen connection Trailhead includes relocated and the WAAAF Creek refurbished shelter with updated display Walk HENNESSY STREET Tocumwal Public School BOYD STREET Sacred Heart Proposed wayfinding MIN WAS MIN WAS THE signage at Cobram Street Tocumwal Tocumwal Hospital Wayfinding signage at Pre School Kelly Street crossing ADAMS STREET Proposed interpretation T.F.N.C at the existing old Kelly Street Nature Re guard house - Off Leash Dog Park Kingswood Recreation KELLY STREET Proposed interpretation Motel Reserve and wayfinding signage Proposed interpretation at Bessie's Bridge. at Kelly Street crossing Interpretation to be Greenways to be easily accessible easily accessible from Holiday Units form Kelly Street end of Cobram Street Proposed refurbishment of existing shelter. Potential connection to future museum. Proposed wayfinding signage at Robert's Bridge Proposed interpretation and wayfinding signage at Boardwalk Bridge. Interpretation to be easily accessible from Centurian Track Tocumwal

Roads

Proposed footpath

Proposed upgraded bridge - Refer LP011 &12 for concept

Possible future crossing

Proposed upgrade to existing trail -

Proposed concrete footpath in creek trail

Proposed wayfinding map - refer concept

Proposed wayfinding bollard

Berrigan Shire Council, Tocumwal Rotary Club & Tocumwal Farmers Market

Legend

WAAAF Creek Walk Branding

Clear legibility and branding



Wayfinding and trail legibility

A key principle of good wayfinding is creating a singular identity for the overall experience of the trail. This helps to reassure visitors they are on the trail and are not lost.

The trail along the creek has a confusing image which can be demonstrated by the number of different names the trail is known as.

Wayfinding bollards

Existing Names for trail:

WAAAF Walk

WAAAF Creek Walk

WAAAF Creek Memorial Walk

WAAAF Memorial Walk

Creek Trail

Centurion Track

Creek Walk

Creek Walk Reserve

Rotary Creek Walk

Existing Signage



BSC Signage



Existing Landscape Colour Palette











WAAAF Recruitment Posters









A project colour palette has been developed. The colours have been chosen from the sites existing colours and WAAAF recruitment posters from WWII.

Use the colour palette to:

- develop a clear brand for the trail - improve trail legibility with a defined look

- create a cohesive look for the interpretive and wayfinding signage There has been some work towards wayfinding along the creek, including maps in the shelters and some bollards. These elements are looking tired and dated. The WAAAF Creek Walk would benefit from an image update, including branding, wayfinding and interpretation.

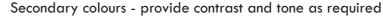
Recommendations:

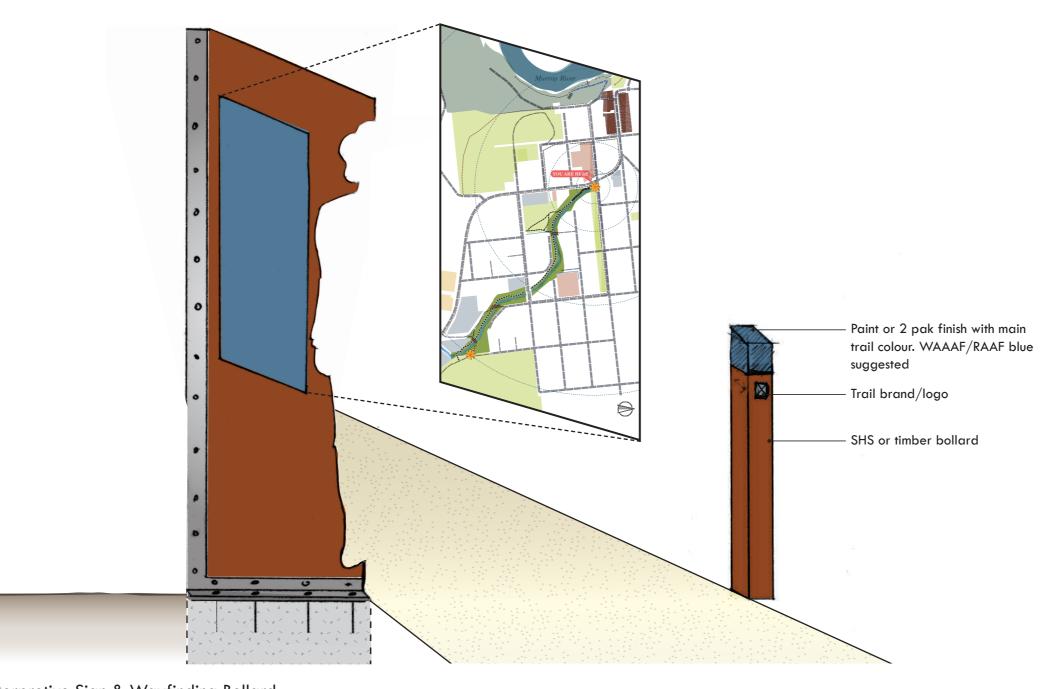
- The Track is to be branded: WAAAF Creek Walk - a project of the Rotary Club of Tocumwal
- · Develop a logo/ brand/look for the trail based on the colour palette developed for this project
- · Ensure all maps (physical and digital) are branded and named correctly
- Use a simple materials palette and a strong individual colour palette for elements of signage to unify the trail (interpretative and wayfinding)

Project Colour Palette Highlight colours









Interpretive Sign & Wayfinding Bollard

Precedents



Wayfinding map



Wayfinding bollard

Wayfinding Concept

Clear & easy walking for locals and visitors



Wayfinding Recommendations

- Integrate wayfinding into interpretation and existing shelters
- Map should be clear and easily to read
- The design should be contemporary and meet the needs of people with accessibility and intellectual challenges
- Content of the map should include connections from splash park to the golf club at a minimum
- Consider extending map to the historic railway station area to provide interpretation trail, or the whole town to provide town wide wayfinding



Interpretive Signage Form

Precedents

Interpretive Signage Concept

Walk with the WAAAF









Vinyl print

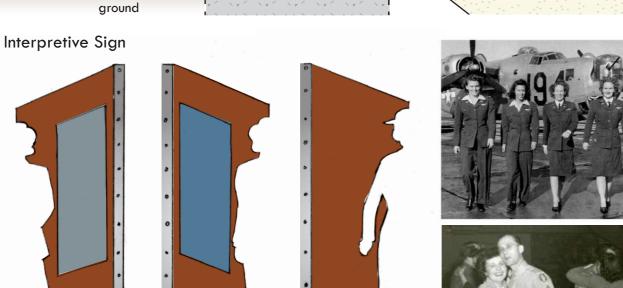


Audio Installations

Etched stainless steel







Varies

650 nom height of WAAAF

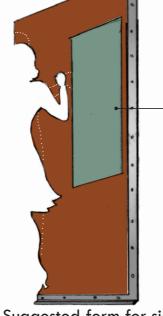


Fitting to suit WWII air base

construction techniques

Signs to be positioned to

create feeling of many WAAAF walk on trail



Wayfinding on one side & Interpretation about WAAAF, air base & in town activities

Suggested form for sign at the War Memorial Hall in town centre A concept for the interpretation signage form and content has been Interps developed during this project. It has been developed in collaboration with BSC and community members. Please refer to all interpretation pages for complete

The sign form concept is developed to celebrate the women who 'walked' the creek. The form of a woman in military dress, work overalls and evening wear dresses reflect the life on the base in Tocumwal.

Interpretation Recommendations

- engage a professional to develop the interpretation content and form
- the following pages identify a guide for best practice in NSW interpretation and should be used as a brief to develop the interpretation
- consider opportunities to include audio / QR codes or similar to provide alternative interpretation opportunities and provide improve accessibility to the interpretation content for people with reading challenges

Artwork as interpretation

Interpretation doesn't just mean signage. There is the opportunity to develop the interpretation concept as creative and innovate artwork(s). The art should provide a diverse range of experiences, be accessible to different cultures and languages, as well as promoting discourse around the WAAAF

The artwork themes should build on the work in this section of the report. There will still be the need for additional research to strengthen the artwork's narrative. The artwork will need to consider the content of the interpretation guidelines and reapply these to the development of the artwork. This research and background content should be made available to visitors.

The form of the artwork should not be restricted to sculpture. Sound, light, and digital mediums should also be considered.



Sheet: Interpretive Sign Concept

Drawn: $\mathbf{D}\mathbf{K}$

October 2018

Mild steel plate with WAAAF silhouette laser

Space for interpretation

trail. The panel will note

features, destinations &

facilities to help visitors navigate Tocumwal &

orient themselves via the

Galvanised steel

structure securely

plate

Interpretive & Wayfinding Design Options

bolted to mild steel

Interpretive sign securely

fixed to footing below

or wayfinding map of

Tocumwal focused on

cutout

2000 nom

WAAAF Story

Applying Best Practice In Heritage Interpretation



The NSW Office of Environment and Heritage has published a Interpreting Heritage Places and Items Guidelines, It was endorsed by the Heritage Council of NSW in 2005. The following section responds to the outline for best practice contained in the guideline.

People And Culture

Respect for the special connections between people and items

This site is a break away of the Murray River. Rivers and creeks are a significant landscape for the traditional owners. At the time of writing this report traditional ownership of the area was under discussion. It is recommended that once this is more clearly resolved consider including interpretation that incorporates Aboriginal people's culture and heritage.

It is recommended that the interpretation be reviewed by a committee of people directly connected to the stories being told. The Tocumwal Aerodrome had the largest encampment of WAAAF. Surviving WAAAF will be in their mid 90's. Consideration should be given to ensure methods meet their needs, are respectful, provide a welcoming and inclusive process.

Bob Brown has collected Aerodrome History. While WAAAF history is not the focus of his research, his knowledge of the Aerodrome would make a highly valuable contribution to the interpretation.

There are some community members alive who remember the aerodrome and WAAAF. Their inclusion on the Review Committee would strengthen the stories connections to local history.

Significance

Understand the story & convey its significance The WAAAF Creek Walk allows the story of women's wartime lives to be told in the place that it happened. The story of WAAAF is complex. there are layers of media and recruitment propaganda, a post war narrative and significant cultural changes which will need to be addressed in the story to accurately capture the significance of the WAAAF wartime efforts.

Records And Research

Good research is at the heart of effective interpretation

Both historical writing and reputable newspapers of the time have formed the basis of the information included in the interpretive concept. Refer to the Appendix for details of records and research that were used to develop the story.

Facts will need to be cross-checked to ensure that they match local knowledge and experiences of people directly related to the stories.

Audience

Explore, respect and respond to the identified audience

General Audience:

The site is used by locals and visitors who are accessing the site for recreation. The future heritage displays attract many people interested in the WWII history of the region and the proposed signs are likely to attract their attention. The interpretation should be written to appeal to a modern audience, with an accessible style of writing using plain English - suitable for all ages with an education level from Year 9 upwards.

Specialist Audience:

There is also a niche market audience based on specialist interest in the changing Women's Role in Australian society and the role of Women in War. Key facts and figures should be specifically incorporated to these audiences.

Themes

Make reasoned choices about themes, ideas and stories

Previous work completed on the Town Entry signs included a brief strategy for interpretation across the town. The rationale was create an interpretive trail, and stories were to be told (wherever possible) in the area where they happened. The WAAAF Creek Walk was identified at town scale as a good location to tell the Tocumwal WAAAF story.

Based on the general audience profile the importance of communicating the human connection to the trail and the lives of the WAAAF is a key priority.

The specific audience interested in women's role in Australian Society and in war will appreciate the details such as:

- · Daily life
- · Opportunities specific to war time
- · Motivations and process to join WAAAF
- Pre and post war life as a contrast to daily life on the base
- WAAAF and RAAF similarities, discrepancies and interactions
- Facts and figures that support the descriptions of the above themes

Engaging The Audience

Stimulate thought and dialogue, provoke response and enhance understanding

It is recommended that the following method be used:

The Thematic Interpretation¹ method enhanced with hooks, headlines and putting 'you' into the history. Consider which tense should be used and how to make the interpretation engaging and memorable.

1 https://en.wikipedia.org/wiki/Thematic_interpretation

Context

Research and understand the physical, historical, spiritual and contemporary context of the story and related stories; and respect local amenity and culture

In accordance with Thematic Interpretation principles, the chosen themes should relate specifically to the place/site of the interpretation and the significance of these events. This links directly to the site design which draws on historical context - both human and environmental.

The concept of the interpretation elements has been designed to enhance the story. They have been located to be easy accessible to both maintenance vehicles and people with mobility challenges. The form design supports current local culture as well as the character and authenticity of the beautiful natural environment. The interpretation will add another dimension to elements people see every day.

Sustaining Significance

Develop interpretation that strengthens and sustains the significance of the item, its character and authenticity

The siting of the interpretation elements and the media used enriches and add layers of significance.

The entire site plan supports a sustainable use of the site. The interpretation further enhances this and has been located at sites which encourage the viewer to interact appropriately with the sensitive creek environment.

Noman's Auxiliary Australian Air Force WAAAF in ~200 stations General throughout Australia . WAAAF History CIRLS IN THE Adventure Civilian Expectation Adiustina of WAAAF to life in Culture _{transport} service Shock Discipline Wartime model of femininity Jobs in Pride in the WAAAF Pay \$/046/s Rates 9₁₀010010010010010010 Largest constituent of tuəmqi*ip*p WAAAF with 422 women based at Tocumwal Life on Walk he Tocumwal Aerodrome & Equal Town Dances One of the many weddings on the base Post War Grave of G. Dickson, Life a WAAAF who died on Camaraderie - Tocumwal Cemetery Returningto

WAAAF Story

Applying Best Practice In Heritage Interpretation



Conservation Planning

Integrate interpretation in conservation planning, and in all subsequent stages of a conservation project

This site does not currently have a Conservation Management Plan. Neither the Walk or the Aerodrome are listed under the NSW Heritage Act State Heritage Inventory. It is suggested that the LGA consider reviewing WWII heritage within the Shire for inclusion.

Maintenance, Evaluation And Review

Include interpretation in the ongoing management of an item; provide for regular maintenance, evaluation and review

All interpretation is to be designed with careful consideration of

- available maintenance resources, skills and budgets
- method of fabrication and installation including design for distance from major centres, local skills and resources that ensure high quality outcomes

Ongoing maintenance of the signs is to include:

- checking for vandalism, damage from storm/flood events, ageing of any components
- undertaking maintenance of the signs to keep the signs clear, safe and accessible
- commissioning fabrication of replacement parts to refurbish the sign

Periodic assessment of the interpretation will be needed. Reviews will incorporate:

- visitor and peer group feedback, or any new research or understandings
- · presentation of all elements
- appropriate timing for more information and acknowledgement of the Traditional Owners of the site
- Future reviews will consider and update the wording of the copy, facts included and method of interpretation, as required.

Skills & Knowledge

Interpretation is to be written and developed by a professional with a specialisation in interpretation projects.

Ensure that the copy writing uses modern techniques of hooks/angles to communicate the significance of particular events, facilitate emotional engagement and highlight human connection. The work should engage with contemporary audiences.

Fabrication and graphic design skills will be required to enhance elements of the story in an iterative and integrated process.

Collaboration

It is recommended that the interpretation copy text, where possible, be co-authored with the review committee and members of the local community.



Image from Tocumwal Historic Aerodrome Museum

Weed Control and Revegetation



Weed control and revegetation

improving maintenance in the long term



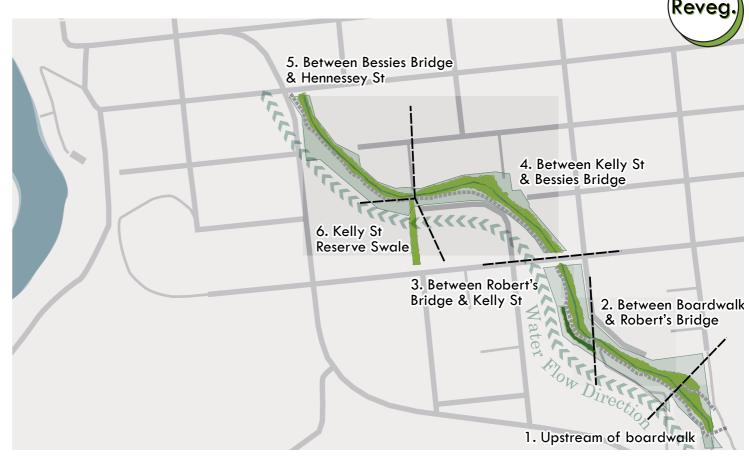


















Existing conditions

The creek is both a drain and a old break away from the Murray River. The water flows on to join the Tuppal Creek. There is significant indigenous tree canopy, however the lower storey and riparian areas have low quality vegetation. Many weed species are living in the creek environment. Some include:

- · Oxalis spp.
- Thistle spp.
- · Tree lucerne
- Ivy spp.
- · Nettle spp.
- · Morning Glory
- · Prickly Pear
- · Privit spp.
- · Bindi

There are some trees which are environmental weeds, however they are of significance to the local community (Peppercorns and White Cedars) and should only be removed with community consultation.

Weed infestation is a current issue for the management of the WAAAF Creek Walk. There has been significant community effort, time and resources invested in removing weeds (chemical and mechanical methods). These efforts have ensured that the creek is not completely overrun and their efforts should be acknowledged as an important contribution. The community members involved, however, have identified that they can not sustain this level of effort in the long term.

Revegetation to address weeds

shaping diagrams for more information.

Successful revegetation will limit the opportunities for weeds. Some weed control will still be required, however it should be significantly less than the current requirements.

Due to the scale of the project the revegetation project has been divided into reaches. Works are to be undertaken in order of upstream to downstream. Some bank works may be required to improve habitat and bank erosion issues. Refer to bank

Revegetation stages

- · Plan works 12 months in advance
- Pre order plants to allow for planting of the right species at the optimum time of year
- · Plan and undertake weed control with careful consideration, ensuring minimal risk of residual effects and pollution damage
- · Pre revegetation weed control including pre cultivation and post cultivation methods. Ensure all chemicals are used as directed and consider weather events to limit impact on non weed species and fauna
- Bank shaping and cultivation of site to be planted
- · Planting when soil is moist but not saturated. Planting methods should consider protection from fauna (water birds etc)
- · Monitor plants and weeds manage as required to ensure plants are not out competed in the first
- · Additional weed management may be required such as weed mat or mulch

Recommendations

- · Short term continue general control weeds for the entire reach of the creek to stop creek from becoming over run
- Engage a professional to develop a detailed revegetation plan that includes targeted weed control methods, bank work improvements, planting methods, species list appropriate for different site conditions, planting modules and staging. Soil tests may be required to ensure the best conditions for the plants
- · Seek partners to help fund and implement the revegetation works
- Opportunities to involve the community in the works should be considered

Bank shaping

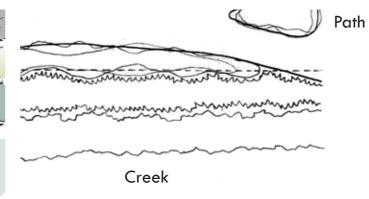
improving micro climates and habitat values





Creek





Bank scolloping - Plan



Recommendations

Legend

Upper bank

vegetation

Lower bank

vegetation

vegetation

Errosion scoure

Rocks & sedge

planting

In-stream riparian

- · Bank works be considered in the planning of revegetation works by a professional
- · Bank works are to be sensitive to existing trees and avoid negative impact on tree health

Existing conditions

The creek has been de silted in the recent past. The form of the creek is often trapezoidal.

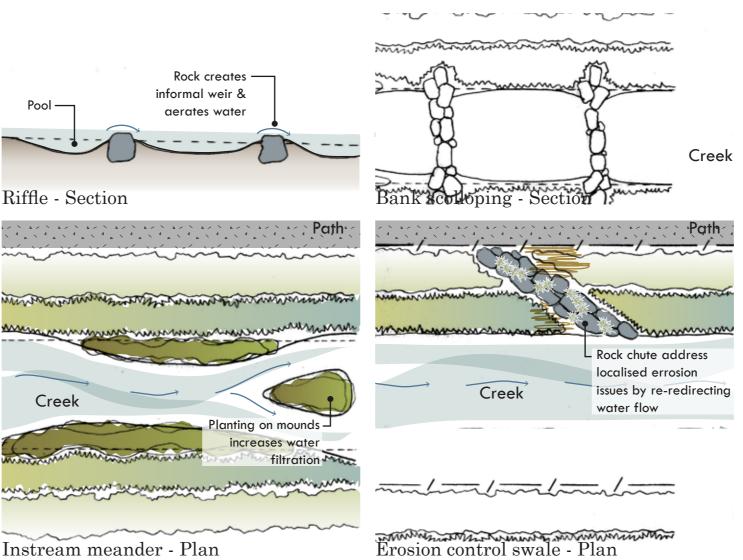
Areas of existing trees on banks limit possible bank works. There are some areas of stagnate water.

Bank work benefits

Trapezoidal creek forms are used to move water quickly away. Water sheets down banks, often not providing benefits to plants or allowing the plants to provide water cleaning functions.

Changing the bank form to slow water during low flow events has the potential to improve:

- revegetation plant success rate
- habitat diversity
- · micro climates for plant species
- allow plants to function as WSUD elements



Revegetation Species

Healthy environment and habitat



EVC 814: Riverine Swamp Forest

Open eucalypt forest to 25 m tall with understorey dominated by obligate wetland species (or opportunistic annuals during sustained dry periods) and can range from closed sedgeland or herbland to grassy-herbaceous or extremely sparse and with cover primarily leaf-litter, black water or exposed alluvium. Occupies low-lying areas subject to reasonably regular flooding, typically flood-prone lower river terraces and low-lying areas adjacent to floodways through or within riverine forest.

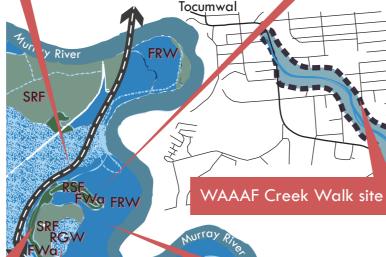
| LF Code | Species typical of at least part of EVC range | Common Name | | | |
|---------|---|--------------------|--|--|--|
| LH | Wahlenbergia fluminalis | River Bluebell | | | |
| LH | Senecio quadridentatus | Cotton Fireweed | | | |
| MH | Alternanthera denticulata s.l. | Lesser Joyweed | | | |
| MH | Ranunculus inundatus | River Buttercup | | | |
| MH | Ranunculus pumilio var. pumilio | Fan-leaf Buttercup | | | |
| MH | Centipeda cunninghamii | Common Sneezeweed | | | |
| LNG | Phragmites australis | Common Reed | | | |
| MTG | Lachnagrostis filiformis | Common Blown Grass | | | |
| MNG | Eleocharis acuta | Common Spike-sedge | | | |
| MNG | Cynodon dactylon var.pulchellus | Native Couch | | | |

EVC 816: Sedgy Riverine Forest

Eucalypt forest to 25 m tall with understorey dominated by larger sedges. Understorey composition indicative of at least occasional shallow flooding and a tolerance of gaps between floods of several years. Typically on heavy soils which can become wet in winter. Sedgy Riverine Forest has some floristic affinities to Red Gum Swamp. It is considered to occupy areas infrequently flooded and in which flood duration may be short, for example, higher ground surrounding the box ridges or occurring along the river levee in a position remote from the channels from which the forest first floods. These areas are therefore the last to flood and the first from which floods quickly recede. Soils are typically heavy clays. The major understorey species Carex tereticaulis is intolerant of total immercian (at least in turbid water)

| immersion (at least in turbia water). | | | | | | | | | | | |
|---------------------------------------|---|-------------------------|--|--|--|--|--|--|--|--|--|
| LF Code | Species typical of at least part of EVC range | Common Name | | | | | | | | | |
| MS | Exocarpos strictus | Pale-fruit Ballart | | | | | | | | | |
| LH | Wahlenbergia fluminalis | River Bluebell | | | | | | | | | |
| LH | Senecio quadridentatus | Cotton Fireweed | | | | | | | | | |
| LH | Brachyscome basaltica var. gracilis | Woodland Swamp-daisy | | | | | | | | | |
| MH | Marsilea drummondii | Common Nardoo | | | | | | | | | |
| SH | Lobelia concolor | Poison Pratia | | | | | | | | | |
| SH | Chamaesyce drummondii | Flat Spurge | | | | | | | | | |
| LTG | Carex tereticaulis | Rush Sedge | | | | | | | | | |
| MTG | Setaria jubiflora | Warrego Summer-grass | | | | | | | | | |
| MTG | Lachnagrostis filiformis | Common Blown Grass | | | | | | | | | |
| MNG | Eleocharis acuta | Common Spike-sedge | | | | | | | | | |
| MNG | Eleocahris pusilla | Small Spike-sedge | | | | | | | | | |

EVC benchmarks map Information from Nature Kit Victorian State



Government

EVC 295: Riverine Grassy Woodland

Occurs on the floodplain of major rivers, in a slightly elevated position where floods are rare, on deposited silts and sands, forming fertile alluvial soils. River Red Gum woodland to 20 m tall with a groundlayer dominated by graminoids and sometimes lightly shrubby or with chenopod shrubs.

| LF Code | Species typical of at least part of EVC range | Common Name |
|---------|---|-----------------------|
| SS | Sclerolaena muricata var. villosa | Grey Roly-poly |
| SS | Enchylaena tomentosa var. tomentosa | Ruby Saltbush |
| SS | Maireana decalvans | Black Cotton-bush |
| SS | Chenopodium curvispicatum | Cottony Saltbush |
| LH | Wahlenbergia fuminalis | River Bluebell |
| LH | Rumex brownii | Slender Dock |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Einadia nutans ssp.nutans | Nodding Saltbush |
| MH | Atriplex semibaccata | Berry Saltbush |
| MH | Atriplex eardleyae | Small Saltbush |
| MH | Sida corrugata | Variable Sida |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Carex inversa | Knob Sedge |
| MTG | Juncus subsecundus | Finger Rush |

EVC 809: Floodplain Grassy Wetland

Wetland dominated by floating aquatic grasses (which persist to some extent as turf during drier periods), occurring in the most flood-prone riverine areas. Typically treeless, but sometimes with thickets of saplings or scattered more mature specimens of Eucalyptus camaldulensis. Occupies temporary shallow lakes in the most flood-prone riverine areas, also occurs as a narrow intermediate band around some floodway ponds.

| LF Code | Species typical of at least part of EVC range | Common Name |
|---------|---|------------------------------|
| MH | Myriophyllum crispatum | Upright Milfoil |
| МН | Ludwigia peploides ssp. montevidensis | Clove-strip |
| MH | Nymphoides crenata | Wavy Marshwort |
| MH | Centipeda cunninghamii | Common Sneezeweed |
| SH | Azolla filiculoides | Pacific Azolla |
| SH | Persicaria prostrata | Creeping Knotweed |
| LTG | Juncus ingens | Giant Rush |
| MTG | Lachnagrostis filiformis | Common Blown Grass |
| MTG | Sporobolus mitchellii | Brown-back Wallaby-grass |
| MNG | Pseudoraphis spinescens | Spiny Mud-grass |
| MNG | Amphibromus fluitans | River Swamp Wallaby-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Cynodon dactylon var. pulchellus | Native Couch |

EVC 56: Floodplain Riparian Woodland

An open eucalypt woodland or open forest to 20 m tall over a medium to tall shrub layer with a ground layer consisting of amphibious and aquatic herbs and sedges. Occurs along the banks and floodplains of the larger meandering rivers and major creeks, often in conjunction with one or more floodplain wetland communities. Elevation and rainfall are relatively low and soils are fertile alluviums subject to periodic flooding and inundation.

| LF Code | Species typical of at least part of EVC range | Common Name |
|---------|---|-----------------------|
| T | Acacia dealbata | Silver Wattle |
| MS | Hymenanthera dentata s.l. | Tree Violet |
| MH | Sida corrugata | Variable Sida |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Persicaria decipiens | Slender Knotweed |
| SH | Chamaesyce drummondii | Flat Spurge |
| SH | Azolla filiculoides | Pacific Azolla |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| LNG | Eleocharis sphacelata | Tall Spike-sedge |
| MTG | Poa labillardierei | Common Tussock-grass |
| MTG | Chloris truncata | Windmill Grass |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Aristida behriana | Brush Wire-grass |
| MNG | Pseudoraphis spinescens | Spiny Mud-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |

Ecological Vegetation Classes

The mapped information is from DELWP Victorian State Government. Due to the close proximity and similar environment to the project site to the following species lists can be used to form the basis of a revegetation list. Commercial availability should be researched and the list refined to suit site conditions.

Recommendations

- Develop a planting list for the different conditions of the creek (plants to be commercially available and suited to revegetation projects)
- Revegetation to focus on the riparian planting of the creek. Terrestrial works should be considered, however are not a prioritised outcome of these works

Sheet: Revegetation Species List

Drawn: CR & DK

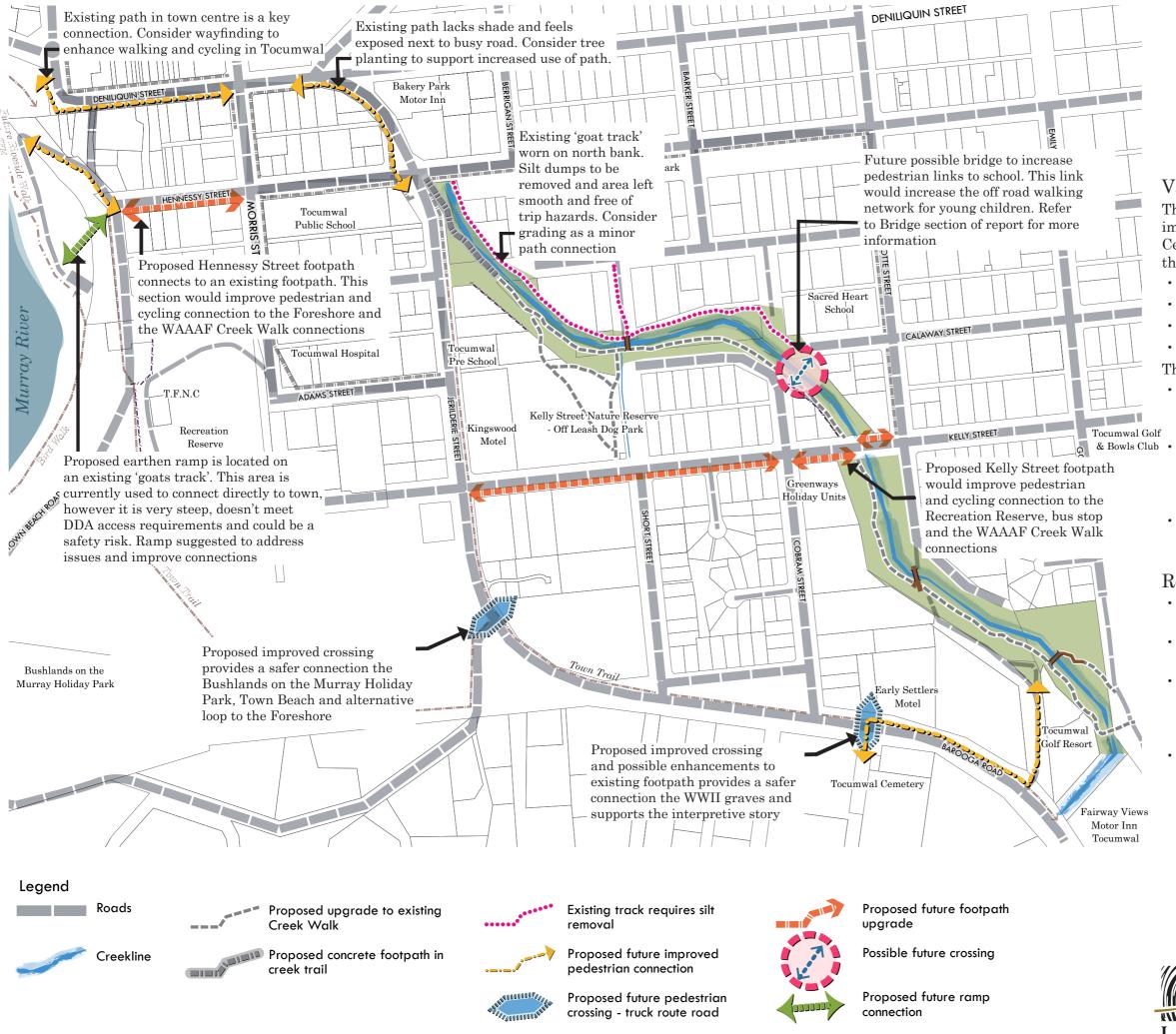
October 2018



WAAAF's on board the wings of a Wirraway - Tocumwal Historic Aerodrome Museum

Future Works





Future Works

Outside of project scope

Value of town wide connections

The WAAAF Creek Walk has the potential to improve broader links across the Tocumwal Town Center. The additional path connections outside of the WAAAF Creek Walk connect to:

- · Town Walk,
- · Bird Walk,
- Riverside Walk (proposed),
- Levee Walk (proposed)

The path network, as a whole, will;

- provide an improved off-road path network linking to two schools and a pre-school that would be suitable for children and teens
- link visitors staying in the 5 hotels/motels along the creek to the Tocumwal Foreshore, splash park and Town commercial centre. This will enhance Tocumwal as a family holiday destination
- enhance the livability of Tocumwal on a town scale for residents with improved active recreation and lifestyle

Recommendations

- Fund and construct the foot paths on Hennessy Street and Kelly Street
- Fund and install pedestrian crossing signage on Barooga Road
- Install a pedestrian bridge connection near Sacred Heart School to match other bridges along the trail (Refer to the 'Bridge' section of this report for more information
- Consider ways to strengthen existing connections such as shade tree planting, surface improvements, wayfinding signage, etc



Sheet: Future works

Scale: NTS

 $\operatorname{Drawn}:GC$

October 2018

Appendix

| Site Photos | 4 |
|-----------------------------|---|
| On-site workshop | 5 |
| Opinion of Probable Cost | 3 |
| Interpretive Research49 | 9 |
| Women's Weekly - 24/03/1945 | C |

VIC. 1943-02-11. Women's Auxiliary Australian Air Force (WAAAF) Service Policewomen and Royal Australian Air Force (RAAF) Service Policeman Being Inspected by the Provost Marshal of the Royal Australian Air Force (RAAF). - Australian War Memorial



Site Photos

14/08/2018

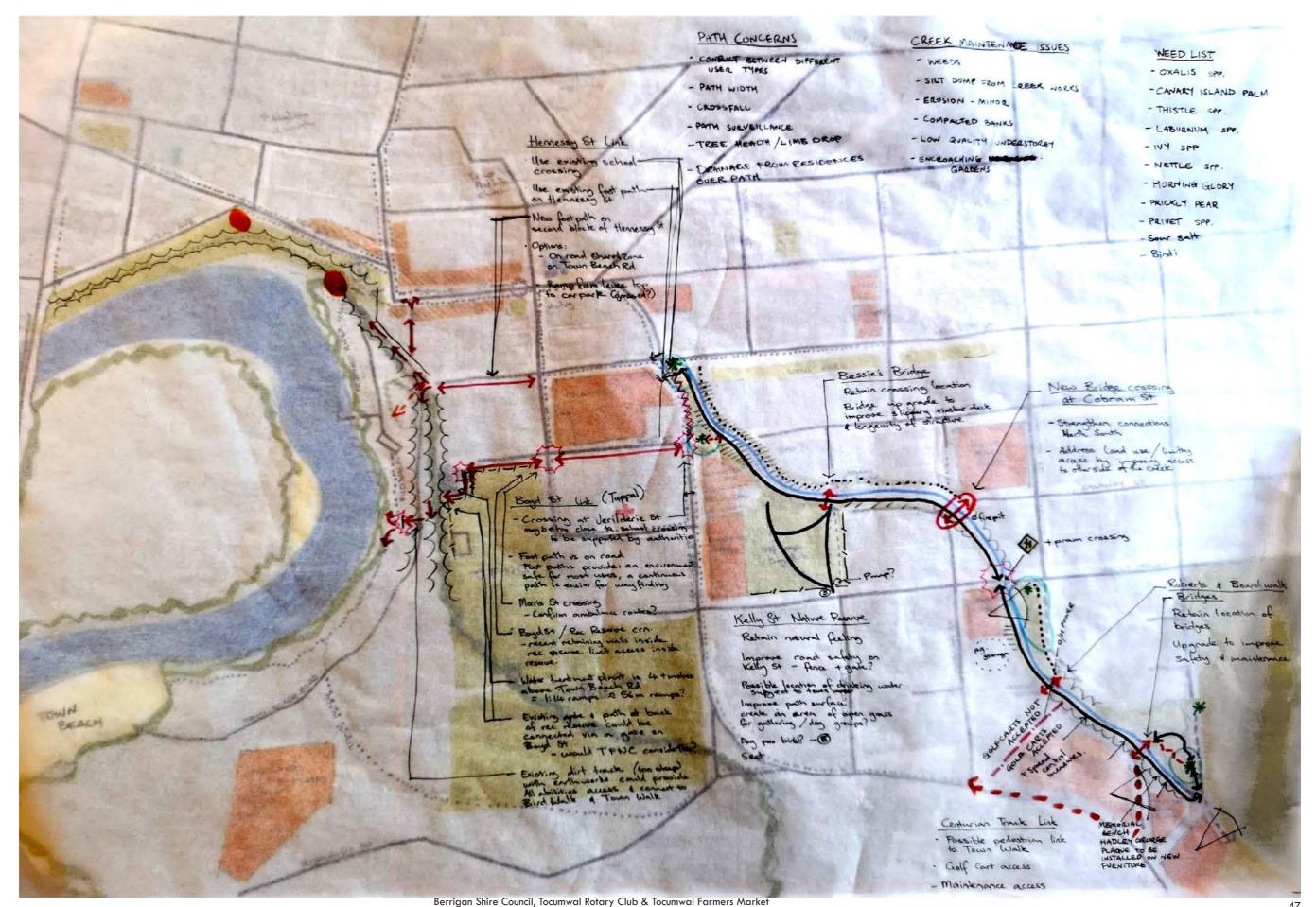


LM·LA

Berrigan Shire Council, Tocumwal Rotary Club & Tocumwal Farmers Market

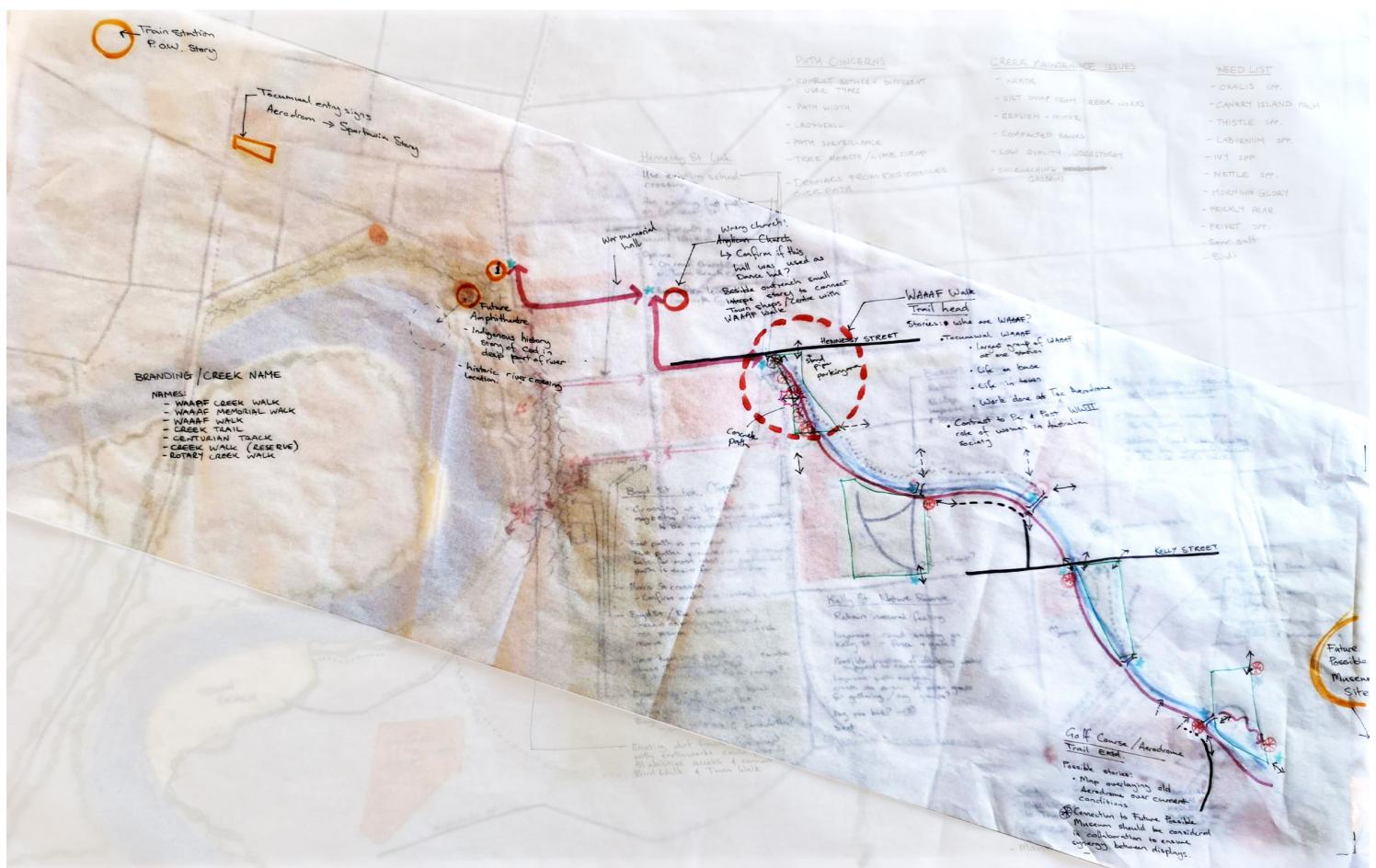
On-site workshop

Analysis & concept options sketch plan - 14/08/2018



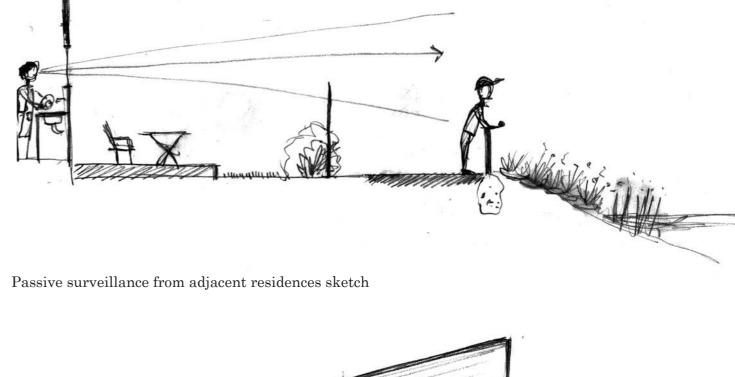
On-site workshop cont.

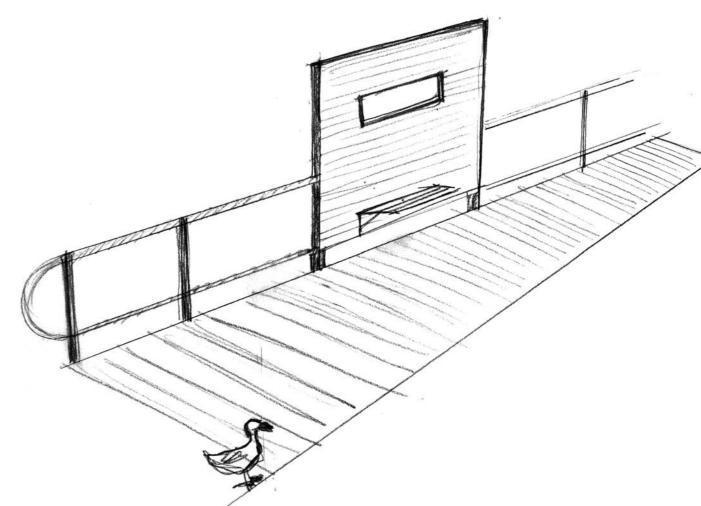
Interpretation & wayfinding opportunities sketch plan



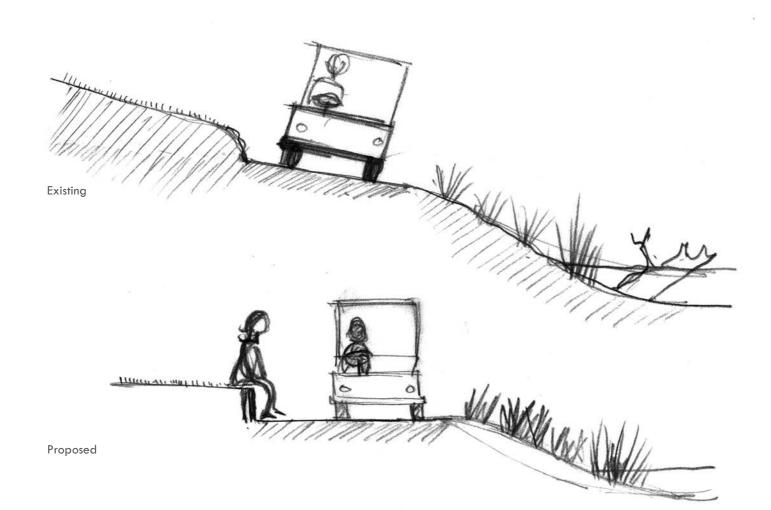
On-site workshop cont.

Path and bridge opportunities sketches





Bridge with bird hide concept sketch



Path surface & grading sketch

| W. A. D. G 1 W. 11 | | Star | ge 1 - Path Works and Sefe | tv Priori | t.v | | | | |
|---|-----------------------------|--------------|--|----------------|-----------|----------------|--------------------|---------------|--------------------------------------|
| WAAAF Creek Walk | | | rigan Shire Council, Tocum | | | Tocumwal Fa | rmers Market | | |
| Berrigan Shire Council, Tocumwal Rotary and Tocumwal I | Farmers Market | | | iwai itota | I y and | | I mers market | | |
| Opinion of Probable Cost - Draft Concept ONLY | | Sche | dule 3 • Whilst every effort has been taken t | to oncuro acci | racy lies | | | | |
| | | | Malan Landscape Architects cannot | | | | | | |
| Schedule 1 | | | from the use thereof. | | | | | | |
| Date : 16.10.2018 | | | This OPC includes construction costs of | | | | | | |
| Liesl Malan Landscape Architects, PO Box 78 Harcourt, VIC | 19459 | | consultancy fees associated with add revised scope, documentation and p | - | | | | | |
| Liest Maian Landscape Architects, FO box 78 Harcourt, VIC | 0 3400 | | This OPC is based on a Draft Conce | | | | | | |
| | | | subject to variation during document | | and 15 | | | | |
| Description of works | | | | | | | | | |
| Stage 1 - Path Works and Safety Priority | \$ 443,325.00 | | All rates are to be confirmed by Ber | rrigan Shire C | .ouncil. | | | | |
| Public Open Space Stages | \$ 54,137.00 | Date | : 16.10.2018 | | | | | | |
| Wayfinding & Interpretation Stage | \$ 190,760.00 | T:I | Malan Landanan Anakitasta DO | D 70 II | 371 | C 9459 | | | |
| Weed Control & Revegetation Stage | \$ 293,635.00 | | Malan Landscape Architects, PO | Box 78 Hai | court, VI | .C 3453 | | | |
| | | <u>im(o)</u> | micicolliau | | - | | | | |
| Total | \$ 443,325.00 | wasananan | | | | | Approximate | | |
| Contingency at 25% | \$110,831.25 | No. | Item | Unit | Quantity | Unit cost | total cost | Subtotal | Comments |
| Total including contingency | \$554,156.25 | Duali | minaries and earthworks | | | | (excluding GST) | £ 22,000,00 | |
| | | rein | minaries and earmworks | | | | | \$ 23,000.00 | |
| Subtotal GST | \$554,156.25 \$55,415.63 | 1 | Preliminaries - setout, site preparation, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | \$ 8,000.00 | \$ 8,000.00 | | Allowance only - TBC subject staging |
| Total amount (including contingency and GST) | \$609,571.88 | | Removal of all silt dumps from | | | | | | |
| | | 2 | creek banks. Use best practice | itam | 1 | PSC a | nacina maintonana | a budgat | |
| Whilst every effort has been taken to ensure accuracy l Architects cannot accept liability arising from the use the | | 2 | to dispose of silt in environmental friendly method. | item | | B3C - 0 | ongoing maintenanc | e budget | |
| | | | Creek path area - Earthworks | | | | | | |
| • This OPC includes construction costs only, it does not include the construction costs only include the construction costs only include the construction costs only include the construction costs on the construction costs on the construction costs on the construction costs on the cost of costs of costs on the cost of costs of costs on the costs of costs on the costs of costs on the costs of costs of costs of costs on the costs of | | | and site preparation, grading & site set-out, ensuring all | | | | | | |
| associated with additional design for revised scope, do management. | cumentation and project |]] 3 | , , | item | 1 | \$ 15,000.00 | \$ 15,000.00 | | Allowance only - TBC |
| | | | pile top soil, undertake weed | | | | | | |
| This OPC is based on a Draft Concept Plan only and is a large and the second of t | subject to variation during | | control (not including | | | | | | |
| documentation | | D - d - | revegetation areas) | | | | | ¢ 0/0.205.00 | |
| All rates are to be confirmed by Berrigan Shire Council. | | Pains | and fencing | | | | P | \$ 269,325.00 | |
| | | | | | | | | | |
| | | | Supply and installation of coir | | | | | | |
| | | 4 | log retaining structure | lm | 310 | \$ 70.00 | \$ 21,700.00 | | |
| | | | | | | | | | |
| | | _ | Supply and installation of | | | ¢ 200.00 | ¢ 10,000,00 | | |
| | | 5 | gabion basket retaining structure | lm | 64 | \$ 300.00 | \$ 19,200.00 | | |
| | | | | | | | | | |
| | | 6 | Upgrade existing gravel shared path at 2.5m wide in conjuction with retaining structure | m² | 515 | \$ 30.00 | \$ 15,450.00 | | |
| | | | | | | | | | |
| | | 7 | Upgrade gravel shared path at 2.5m wide. Includes supply and installation | m² | 3048 | \$ 30.00 | \$ 91,425.00 | | |

Assumes works by bac and Supply and install pram can be undertaken in crossing in Kelly Street (include conjunction with other kerb item 2 500.00 \$ 1,000.00 minor demolition of existing works. kerb) Confirm staging with Michelle Supply and install pedestrian 500.00 item 2 250.00 \$ crossing signage in Kelly Street Supply and install Kelly St 8 170 150.00 \$ 25,500.00 lm Reserve frontage fencing Supply and install Kelly St BSC and resident input Reserve and residential lot lm 110.00 \$ 12,100.00 required Allowance only -110 \$ TBC fencing Supply and install post and rail lm 317 250.00 \$ 79,250.00 fencing Supply and install removable 11 item 16 \$ 200.00 \$ 3,200.00 bollards Bridge crossing and boardwalk \$ 151,000.00 Soil test to inform structural \$ 1,000.00 \$ 1,000.00 12 engineers computations item (approximately 7 test sites) Structural engineering of item \$ 5,000.00 \$ 5,000.00 Allowance only - TBC bridge and boardwalk Allowance only. Subject to Supply and delivery of bridge \$ 25,000.00 \$ 75,000.00 further research and design item crossing (approximately 10 lm) development Supply and delivery of Allowance only. Subject to \$ 25,000.00 \$ 25,000.00 15 boardwalk (approximately 52 further research and design item development Installation of bridge crossings Allowance only. Subject to 16 including footings. Ensure site is \$ 5,000.00 \$ 15,000.00 further research and design item left neat and tidy. development Installation of boardwalk Allowance only. Subject to \$ 10,000.00 \$ 10,000.00 17 including footings. Ensure site is further research and design item left neat and tidy. development Crane truck to assist with 18 bridges and boardwalk item \$ 20,000.00 \$ 20,000.00 Allowance only. installation Subtotal (ex. GST) \$ 443,325.00

| | | | , | | | | | /11. | 11011 01 | 1 Tobable Cos |
|---------|--|----------------|------------|------|-------------|------|--|------|-----------|---|
| Publi | c Open Space Stages | | | | | | | | | |
| Berri | gan Shire Council, Tocum | wal Rota | ry and | Toc | umwal Fa | rme | ers Market | | | |
| Schedu | ıle 3 | | | | | | | | | |
| | Whilst every effort has been taken Malan Landscape Architects cannot from the use thereof. | | | | | | | | | |
| | This OPC includes construction costs of consultancy fees associated with addrevised scope, documentation and p | | | | | | | | | |
| • | This OPC is based on a Draft Conce subject to variation during document | | | | | | | | | |
| • | All rates are to be confirmed by Be | rrigan Shire (| Council. | | | | | | | |
| | 16.10.2018 | | | | | | | | | J. |
| | Ialan Landscape Architects, PO | Box 78 Ha | rcourt, VI | C 34 | 53 | | | | | |
| No. | a.com.au Item | Unit | Quantity | | Unit cost | | pproximate total cost cluding GST) | | Subtotal | Comments |
| Prelimi | naries and earthworks | | 1 | | | () | g, | | | |
| 1 | Preliminaries - setout, site preparation, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | ۷/A will ۱ | vary | depending o | n ap | prach to works | | | Allowance only - TBC subject staging |
| Kelly S | treet Nature Reserve | | 1 | | | | | \$ | 37,327.00 | |
| 2 | Kelly Street Nature Reserve path upgrade | item | 443 | \$ | 30.00 | \$ | 13,290.00 | | | Assumes works by BSC and can be undertaken in conjunction with other kerb |
| 3 | Minor clearing and estabishment of slashed grass area in Kelly Street Nature | m ² | 2388 | \$ | 4.00 | \$ | 9,552.00 | | | |
| 4 | Supply and install Roadside Litter & Recycling Receptacle (metal front/rear and timber sides) with insert Trail name | item | 4 | \$ | 1,645.00 | \$ | 6,580.00 | | | |
| 5 | Supply and install park | item | 2 | \$ | 1,200.00 | \$ | 2,400.00 | | | |
| 6 | Drinking fountian with dog bowl and side tap | item | 1 | \$ | 2,505.00 | \$ | 2,505.00 | | | |
| | Water connection to drinking fountain | item | | \$ | 3,000.00 | \$ | 3,000.00 | | | |
| Kelly S | treet / Charlotte Street Picnic are | | 1 | - | | | | \$ | 8,405.00 | |
| 7 | Supply and install Roadside Litter & Recycling Receptacle (metal front/rear and timber sides) with insert Trail name | item | 1 | \$ | 1,645.00 | \$ | 1,645.00 | | | |
| 8 | Supply and install picnic tables and seats with provision for wheelchairs | item | 2 | \$ | 3,380.00 | \$ | 6,760.00 | | | |
| Golf C | ourse Picnic area | | | | | | | \$ | 8,405.00 | |
| 9 | Supply and install Roadside Litter & Recycling Receptacle (metal front/rear and timber sides) with insert Trail name | item | 1 | \$ | 1,645.00 | \$ | 1,645.00 | | | |
| 10 | Supply and install picnic tables and seats with provision for wheelchairs | item | 2 | \$ | 3,380.00 | \$ | 6,760.00 | - | | |
| | | | | | | Sub | total (ex. GST) | \$ | 54,137.00 | |

| Wayf | inding & Interpretation S | Stage | | | | | | | | |
|--|--|----------------|------------|-----|-----------|----|------------------------|----|------------|--|
| Berri | gan Shire Council, Tocum | wal Rota | ry and ' | Γοσ | eumwal Fa | rm | ers Market | | | |
| Schedu • | Whilst every effort has been taken Malan Landscape Architects cannot from the use thereof. | | | | | | | | | |
| • | This OPC includes construction costs of consultancy fees associated with addrevised scope, documentation and p | n for | | | | | | | | |
| This OPC is based on a Draft Concept Plan only and is subject to variation during documentation | | | | | | | | | | |
| • | All rates are to be confirmed by Be | rrigan Shire (| Council. | | | | | | | |
| Date : | 16.10.2018 | | | | | | | 5 | | |
| Liesl V | Ialan Landscape Architects, PO | Box 78 Hai | rcourt. VI | C 3 | 453 | | | | | |
| | a.com.au | | | | | | | | | |
| No. | Item | Unit | Quantity | | Unit cost | | Approximate total cost | | Subtotal | Comments |
| Prelimir | naries and earthworks | | | | | | J J | \$ | 4,000.00 | |
| 1 | Preliminaries - setout, site preparation, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | \$ | 4,000.00 | \$ | 4,000.00 | | | Allowance only - TBC subject staging |
| Trailhe | ad | | | | | | | \$ | 103,600.00 | |
| 2 | Supply and install carpark gravel area | item | 1 | \$ | 50,000.00 | \$ | 50,000.00 | | | BSC input required Allowance only - TBC |
| 3 | Supply and install concrete shared path at 2.5m wide | m | 405 | \$ | 120.00 | \$ | 48,600.00 | | | |
| 4 | Relocation of existing shelter including new footings | item | 1 | \$ | 1,000.00 | \$ | 1,000.00 | | | |
| 5 | Crane truck to assist with relocation of shelter | item | 1 | \$ | 2,000.00 | \$ | 2,000.00 | | | Allowance only. |
| 6 | Refurbishment of existing shelters including repainting and cleaning | item | 2 | \$ | 1,000.00 | \$ | 2,000.00 | | | |
| Interpre | | | | | | | | \$ | 74,000.00 | |
| 7 | Interpretive signage - research, curation, copy writing, graphic design and signage form design and detailing | item | 8 | \$ | 3,000.00 | \$ | 24,000.00 | | | Assumes limited research required |
| 8 | Interpretive elements including signage - fabrication & installation | item | 8 | \$ | 3,000.00 | \$ | 24,000.00 | | | |
| 9 | Wayfinding signage - graphic design and signage form design and detailing | item | 1 | \$ | 2,000.00 | \$ | 2,000.00 | | | Assumes limited research required |
| 10 | Wayfinding signage - fabrication & installation | item | 2 | \$ | 1,000.00 | \$ | 2,000.00 | | | |
| 11 | Supply and install wayfinding bollard | item | 10 | \$ | 200.00 | \$ | 2,000.00 | | | |
| 12 | Shelter 1 Update existing shelter display including fabrication supply and installation (approximately 7 new panels + 1 wayfinding sign as itemised above) | item | 1 | \$ | 10,000.00 | \$ | 10,000.00 | | | |

WAAAF Creek Walk - Tocumwal

| 13 | Shelter 2 update existing shelter display (approximately 7 new panels + 1 wayfinding sign as itemised above) | item | 1 | * | 10,000.00 | \$ | 10,000.00 | | | |
|---------|---|------|---|----|-----------|--------|--------------|------------------|--|---|
| Furnitu | re | | | | | | | \$ 9,160.00 | | 1 |
| 14 | Supply and install picnic tables and seats with provision for wheelchairs | item | 2 | \$ | 3,380.00 | \$ | 6,760.00 | | | |
| 15 | Supply and install park benches | item | 2 | \$ | 1,200.00 | \$ | 2,400.00 | | дановоровороворовороворовороворовороворово | |
| | bin | | 1 | | | | | | | |
| | | | | | | | | | | |
| | | | | 1 | | | | | | 1 |
| | | | | | | Subtot | al (ex. GST) | \$ 190,760.00 | | - |
| | | | | | | | | | | |

| | d Control & Revegetation | | | | | | | |
|--------------------|--|----------------|------------|------------|--|--|---------------|--|
| Berri | igan Shire Council, Tocum | wal Rota | ry and | Госитwal | Farmers Mar | ket | | |
| Sched | ule 3 | | | | | | | |
| | Whilst every effort has been taken Liesl Malan Landscape Architects co arising from the use thereof. | | | | | | | |
| | • This OPC includes construction costs include consultancy fees associated | with addition | | | | | | |
| | for revised scope, documentation a | | | | and a control of the | | | |
| • | This OPC is based on a Draft Concessiblect to variation during document | | and is | | | | | |
| enenenenenenenenen | All rates are to be confirmed by Be | errigan Shire | Council. | | | | | |
| Date : | 16.10.2018 | | | | | | | |
| Liesl N | Malan Landscape Architects, PC |) Box 78 Hs | arcourt. V | IC 3453 | Vinesa de la Constanta de la C | | | ************************************** |
| | la.com.au | 202 10 116 | | | | | | |
| No. | ltem | Unit | Quantity | Plant size | Unit cost | Approximate total cost (excluding GST) | Subtotal | Comments |
| Design | and documentation of revegetati | | | | | | \$ 15,000.00 | |
| 1 | Professional design and documentation of creek rehabilitation works including species selection, bank works as appropriate, planting plans, scheldules, modules and details, opinion of probable costs including staging, weed and pest control recommendatiosn. | item | 1 | n/a | \$ 15,000.00 | \$ 15,000.00 | | Allowance only - |
| 2 | Survey of creek to support planting plan and bank works | item | 1 | n/a | To be undertaken | n by BSC internally | | |
| Reveg | etation | | | | | | \$ 278,635.00 | |
| 3 | Upstream of boardwalk Preliminaries - setout, site preparation, and bank works, weed control Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ 4,000.00 | \$ 4,000.00 | | Allowance only - TBC subject staging |
| 4 | Upstream of boardwalk Revegetation of the creek banks with riparian species. Assumes 6 hiko stock per m2 | m ² | 1759 | Hiko | \$ 15.00 | \$ 26,385.00 | | Area to be revegetated in Creek is an estimate only due to no site survey to confirm location of top and toe of bank |
| 5 | 2. Between Boardwalk & Robert's Bridge Preliminaries - setout, site preparation, and bank works, weed control, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ 4,000.00 | \$ 4,000.00 | | Allowance only - TBC subject staging |
| 6 | Between Boardwalk & Robert's Bridge Revegetation of the creek banks with riparian species. Assumes 6 hiko stock per m2 | m ² | 3060 | Hiko | \$ 15.00 | \$ 45,900.00 | | |

| | 3. Between Robert's Bridge & Kelly St Preliminaries - setout, site preparation, and bank | | | | | | | | |
|----|--|----------------|------|------|--------|-------------|-------|-----------|--------------------------------------|
| 7 | works, weed control, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ | 4,000.00 | \$ | 4,000.00 | Allowance only - TBC subject staging |
| 8 | 3. Between Robert's Bridge & Kelly St Revegetation of the creek banks with riparian species. Assumes 6 hiko stock per m2 | m ² | 2088 | Hiko | \$ | 15.00 | \$ | 31,320.00 | |
| 9 | 4. Between Kelly St & Bessies Bridge Preliminaries - setout, site preparation, and bank works, weed control, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ | 4,000.00 | \$ | 4,000.00 | Allowance only - TBC subject staging |
| 10 | 4. Between Kelly St & Bessies Bridge Revegetation of the creek banks with riparian species. Assumes 6 hiko stock per m2 | m^2 | 5000 | Hiko | \$ | 15.00 | \$ | 75,000.00 | |
| 11 | 5. Between Bessies Bridge & Hennessey St Preliminaries - setout, site preparation, and bank works, weed control, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ | 4,000.00 | \$ | 4,000.00 | Allowance only - TBC subject staging |
| 12 | 5. Between Bessies Bridge & Hennessey St Revegetation of the creek banks with riparian species. Assumes 6 hiko stock per m2 | m ² | 2718 | Hiko | \$ | 15.00 | \$ | 40,770.00 | |
| 13 | 6. Kelly St Reserve Swale Preliminaries - setout, site preparation, and bank works, weed control, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | n/a | \$ | 1,000.00 | \$ | 1,000.00 | Allowance only - TBC subject staging |
| 14 | 6. Kelly St Reserve Swale Revegetation of the swale with riparian species. Assumes 6 hiko stock per m2 | m ² | 1768 | Hiko | \$ | 15.00 | \$ | 26,520.00 | |
| 15 | Revegetation with shrub species screening. Assumes 4 hiko stock per m2 | m ² | 1174 | Hiko | \$ | 10.00 | \$ | 11,740.00 | |
| 16 | Weed control - manual removal of weed shrubs | item | 1 | or | ngoing | maintenance | buc | lget | |
| 17 | Weed control using chemical methods (ensure best practice in creek environment) | item | 1 | or | ngoing | maintenance | e buc | lget | |
| | | | | | | | | | · |

| Futu | re works outside of Projec | ct Scope | | | | | | | | |
|---|---|----------------|-------------|------|---|-----|--|----|------------|--|
| Berrigan Shire Council, Tocumwal Rotary and Tocumwal Farmers Market | | | | | | | | | | |
| Schedu | | to ensure acc | uracy Liesl | | | | | | | |
| This OPC includes construction costs only, it does not include consultancy fees associated with additional design for revised scope, documentation and project management. This OPC is based on a Draft Concept Plan only and is subject to variation during documentation | | | | | | | | | | |
| | • All rates are to be confirmed by Be 16.10.2018 | rrigan Shire (| Council. | | | | | | | |
| | Malan Landscape Architects, PO | Box 78 Hai | rcourt, VI | C 34 | 453 | | | | | |
| No. | ltem | Unit | Quantity | | Unit cost | | approximate total cost ccluding GST) | | Subtotal | Comments |
| Prelimi | naries and earthworks | | | | | (6) | cooling OSI) | \$ | - | |
| 1 | Preliminaries - setout, site preparation, Public Liability Insurance, Safe Work Methods, Site Management Plan, Traffic Management, Dial Before You Dig and OH&S | item | 1 | | N/A will vary depending on apprach to works | | | | | |
| 2 | Removal of all silt dumps from north side of creek banks. Use best practice to dispose of silt in environmental friendly | item | T T | | BSC - ongoing maintenance budget | | | | | |
| Paths | method. | | | | | | | \$ | 228,700.00 | |
| 4 | Supply and install concrete street footpath Hennessy Street (assumes 2.5m wide) | m ² | 400 | \$ | 120.00 | \$ | 48,000.00 | | | |
| 3 | Supply and install concrete street footpath Kelly Street (assumes 2.5m wide) | m ² | 1248 | \$ | 120.00 | \$ | 149,700.00 | | | |
| 5 | Earthern Ramp in Foreshore 89 Im - Earthworks and site preparation, grading & site set- out, ensuring all areas are free draining, stock pile top soil, undertake weed control (not including revegetation areas) | item | 1 | \$ | 30,000.00 | \$ | 30,000.00 | | | BSC input required Allowance only - TBC |
| 6 | Crossing (signage only) over Barooga Road near the cemetery and bushland | item | 4 | \$ | 250.00 | \$ | 1,000.00 | | | |
| Lighting | | | | | | | | \$ | 30,000.00 | |
| 7 | Lighting along Creek Walk at trail head area | allowance | 1 | \$ | 30,000.00 | \$ | 30,000.00 | | | |
| Possible bridge at Cobram/ Sacred Heart School | | | | | | | | \$ | 36,000.00 | |
| 8 | Soil test to inform structural engineers computations (approximately 1 test site) | item | | \$ | 1,000.00 | \$ | 1,000.00 | | | |
| 9 | Supply and delivery of bridge crossing (approximately 10 lm) | item | 1 | \$ | 25,000.00 | \$ | 25,000.00 | | | |

| 10 | Installation of bridge crossings including footings. Ensure site is left neat and tidy. | item | | \$ | 5,000.00 | \$ 5,000.00 | | | | |
|----|---|------|---|----|----------|-------------|--|--|--|--|
| 11 | Crane truck to assist with bridges and boardwalk installation | item | 1 | \$ | 5,000.00 | \$ 5,000.00 | | | | |
| | Subtotal (ex. GST) \$ 294,700.00 | | | | | | | | | |

Interpretive Research

The WAAAF Tocumwal

Tocumwal Historic Aerodrome Museum

http://www.tham.org.au/

The Royal Australian Air Force

Women's Auxiliary Australian Air Force (WAAAF) and Women's Royal Australian Air Force (WRAAF)

Australian War Memorial

https://www.awm.gov.au/learn/understanding-military-structure/raaf/waaaf

Women's Auxiliary Australian Air Force (WAAAF) (1941 - 1947)

http://www.womenaustralia.info/biogs/AWE0400b.htm

Australians at War Film Archive

Lois Dalziel

http://australiansatwarfilmarchive.unsw.edu.au/archive/2095-lois-dalziel

Women the victims of war, WAAAF veteran says

https://www.canberratimes.com.au/national/act/women-the-victims-of-war-waaaf-veteran-says-20160421-gobjad.html

Women's Auxiliary Australian Air Force (WAAAF)

in Australia During WW2

https://www.ozatwar.com/waaaf/waaaf.htm

WAAAF - an Aussie wartime success story

http://www.defence.gov.au/news/raafnews/editions/4404/story10.htm

One WAAAF remembers

Judy Stone, WAAAF

(Joanna Penglase and David Horner, When the War Came to Australia, Allen and Unwin, Sydney, 1992 pages 49 - 50, 245)

Investigating the reality

what women did and were paid

http://main.anzacday.org.au/overview-of-activity

Meander along the WWII Women's Auxillary Australian Air Force Memorial Creek Walk.

http://www.toconthemurray.com.au/Products/19/70/WAAAF-Creek-Walk.html

Women's Auxiliary Australian Air Force Memorial Creek Walk

http://www.aussietowns.com.au/town/tocumwal-nsw

Geocache Description

WAAAF Creek Walk #3

 $https://www.geocaching.com/geocache/GC2W319_waaaf-creek-walk-3?guid=14cf647e-f5d4-4cb9-9867-8f50b8c78971$

Woman Answered the Call During the War

https://anzacportal.dva.gov.au/history/special-features/veterans-stories/australians-war-stories/women-answered-call-during-war

Trove WAAAF Articles

https://trove.nla.gov.au/

https://trove.nla.gov.au/newspaper/page/626974#

https://trove.nla.gov.au/newspaper/rendition/nla.news-page4727522.pdf

Other Links

 $http://www.australiansatwar.gov.au/stories/stories_ID=17_war=W2.html$

http://www.australia.gov.au/about-australia/australian-story/aviatrices

http://murrayriver.com.au/tocumwal/tocumwal-history/

Images

VIC0376

Australian War Memorial

https://www.awm.gov.au/collection/C291696

Tocumwal, NSW. C. 1944. Two WAAAF armourers working on a gun turret of a Consolidated B-24 Liberator bomber aircraft at No. 7 Operational Training Unit, RAAF Station Tocumwal.

Copyright expired

VIC0380

Australian War Memorial

https://www.awm.gov.au/collection/C291700?image=1

Tocumwal, NSW. C. 1944. Two WAAAF armourers working on a gun turret of a Consolidated B-24 Liberator bomber aircraft at No. 7 Operational Training Unit, RAAF Station Tocumwal.

Copyright expired

VIC0377

Australian War Memorial

https://www.awm.gov.au/collection/C291697?image=1

Tocumwal, NSW. C. 1944. A WAAAF airframe fitter at work on an aircraft at No. 7 Aircraft Depot, RAAF Station Tocumwal.

THAM Images

WAAAF's on board the wings of a Wirraway

WAAAF's picnic by the Murray River

One of the many weddings on the base

http://www.tham.org.au/

Women's Weekly - 24/03/1945 WAAAF 4th Year Special





THE W.A.A.A.F. IS NOW FOUR YEARS OLD . . .

BIRTHDAY greetings to the W.A.A.A.F., which is now four years old! Its total strength is approximately 18,500, of whom the largest group—4000—are doing various forms of signals and communication work. Next to them in numbers are cooks and mess stewardesses—3000—while 1500 work on aircraft in both technical and unskilled jobs. These photographs were taken on a tour of R.A.A.F. stations by a staff photographer of The Australian Women's Weekly.



AT A NORTHERN BASE, Wasafs travel to work by trailer







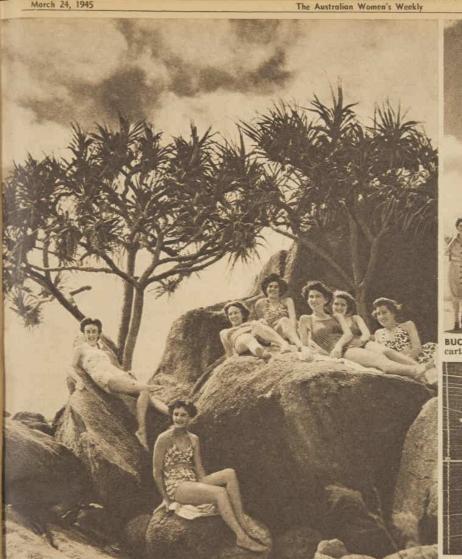
TELGRAPHIST ACW Mollie Winter had two sisters, two brothers, in Services. One brother was killed.





CORPORAL NAN DOYLE, wireless-telegraphist, sets out for night shift, taking rations for supper.

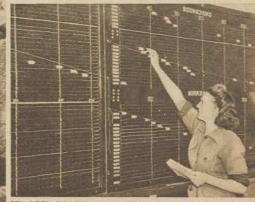
AIRCRAFTWOMEN and aircraftmen at work on a Mark 8 Spitfire at a training unit.



SHIFT WORKERS of the W.A.A.A.F. sunbathing on the rocks by a beach near their Far North station.







STAGGER BOARD records flying hours of every aircraft in training unit. ACW Ruby Grieve adds day's totals.



ACW BETTY SHIRLEY cooks for 250 in airmen's "DOPING" PATCHES on a flying-boat. Tarmac is right on the beach at this maintenance unit mess in former hotel in North. Husband is a P.O.W. Aircraft come direct from operational areas, often with bullet and shrappel holes in fabric.

National Library of Australia

http://nla.gov.au/nla.news-page4727522

YOUR FAVOURITE RADIO 268

'The Dominant Sex"

"Learn a Tune" Mon. and Wed., 7.45 p.m.

Week End For Three" Tuesday, 9.30 p.m.

Digger Hale's Daughters" Mon. to Thurs., 6.45 p.m.

What Do You Know?" Thursday, I p.m.

> "Youth Speaks" Friday, 7.30 p.m.

"Melodies and Memories"

THE NATION'S STATION!



RIGGER ACW Iris Smith, working on repairs in the gun adating at Rithmines Rying-boat base, N.S.W. You have to any attential Rands mitratings to pick out the girls from the ony attential Rands on attracting to pick out the girls from the and absorbing work in the W.A.A.A.F.

By ADELE SHELTON SMITH

"Me and my girl friend thought it out during morning

This was what a nineteen-year-old groundstaff man said when his C.O. asked him how he had thought out an idea he had submitted to speed up maintenance work

The C.O. told the story as an illustration of the splendid co-operation between the R.A.A.F. and the W.A.A.A.F.

MEMBERS of the WAAAF. Bying-anis away from the mosquito have been working alongside the RAAF now for four years.

Some of them have been doing the same work day in day out for four years, serving meals cooking typing work.

At the camp the showers have no roof. The rain was failing in inches, not points, but the girs meals cooking typing work.

She saw the girls at we

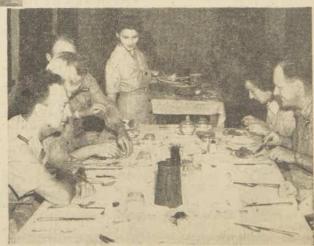
March 24, 1945











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March 24, 1945

SAILORS' MOTHERS

AFTER H.M.A.S. Australia



MARCH 24, 1945

FOUR YEARS
OF SERVICE
FOUR years ago 200
girls were enrolled to run the first W.A.A.A.F. training depot.
Apart from the nursing services they were Australia's first service-women, and everyone watched to see how they would "make out."
From that small nucleus

APTER H.M.A.S. Australia and Shropshire were in action recently, A/B. John Corcuration, of Shropshire, wrote to his mother in Bondi, N.S.W.
"Some of the Australia boys have been badly burned. You will find out where they and happy."
Try to make them comfortable and happy."
Mrs. Corcoran located two, Billy Sutton (W.A.) and Aivin Williams (S.A.), only survivors of their particular group. Both hung between life and death for several weeks.
Mrs. Carke, another sallor's mother, visited the boys, organised social functions, and with hung between life and death for several weeks.

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Mrs. Carke, another sallor's mother in Bondi, N.S.W.

Mrs. Carke, another sall

inspiring.

So is their relationship with the men of the R.A.A.F. There is a commonsense commadeship.

with the men of the R.A.A.F. There is a commonsense comradeship between the girls and men working allongside each other that makes the arguments about women in the post-war world seem unnecessary fussation.

The girls are justifiably proud they have proved themselves competent to work alongside men, but most of them have already made up their minds that a home, husband, and family will come first when they say good-bye to service life.

For those who have not seen the W.A.A.A.F. They will content to the first rush of enlist ments.

As the offensive in the Pacific search will be made a personal report to work alongside men, but the first when they say good-bye to service life.

For those who have not seen the w.A.A.A.F. They will come that wo house a private only the provent the sense of urgency that still actuates them as strongly now as it did in the first rush of enlist ments.

As the offensive in the Pacific speeds up, heavier demands will be made on the W.A.A.A.F. They will common. Court attendants then raised the made to know the Emperor graciously permitted me to continue to "make out" with hymn colors.

As the offensive in the Pacific speeds up, heavier demands will be made on the W.A.A.A.F. They will common. Court attendants then raised wall be made on the W.A.A.A.F. They will common. Court attendants then raised wall be made to know the Emperor of the wall that the protition of the palace of the palace

















March 24, 1945

ONE is moved to wonder regu-

ONE is moved to wonder regularity each year
Whether holidays are worth the preparatory wear and tear
Caused by the scurry to get work up to date
And tidying the desk in one furious spate.
Clearing the drawers of the junk that encumbers,
Such as letters, hills, and mysterious phone numbers,
To say nothing of remembering to explain to one's reflever That there is no need to get into a frenzied fever
Over the folder marked "Urgent," which, in point of fact,
Has lain crammed full of rubbish for the last year, intact,
—DOROTHY DRAIN.





MISS J. STAVRIDI



MR. J. T. TOMASETTI

DIRECTOR of Ste

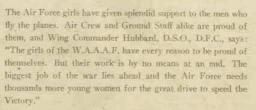
The Australian Women's Weekly

Wing Commander A. L. C. Hubbard: D.S.O. Among his operational flights he counts on









What a chance the Air Force offers you! Join up now. Vital, interesting work is waiting for you. You will be as much a member of our gallant Air Force as the men who fly the 'planes.

And you can choose the work you want to do from the variety fly the planes. Air Crew and Ground Staff alike are proud of of jobs open to you. Pay is good, leave is on a generous scale and conditions are comfortable

... says Wing Commander A. L. C. Hubbard, D.S.O., D.F.C.

Here is your opportunity to live a thrilling, wonderful life-to do a job that you'll always look back on with keen pleasure and a feeling of well-deserved pride.

The Air Force needs you-to-day! Join it, work with it, share in its triumphs. You can obtain full particulars from your local R.A.A.F. Recruiting Committee, or from the R.A.A.F. Recruiting Centre in any capital city.

SERVE WITH THE AIR FORCE ... Women's Auxiliary Australian Air Force

"The girls of the W.A.A.A.F. have every reason to be proud

of themselves, and the Air Force is proud of them, too"

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LM·LA

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http://nla.gov.au/nla.news-page4727531