

Arthur Street Pedestrian Accessibility Upgrades

At High End Civil, we believe every project is an opportunity to make communities safer, stronger, and more connected. The Arthur Street, Broughton Road & Mackenzie Street Pedestrian Accessibility Upgrade, delivered for Strathfield Council in 2025, stands as a proud example of our commitment to creating public spaces that prioritise people, safety, and sustainability.

This project wasn't just about building infrastructure – it was about delivering a legacy that will serve families, schools, commuters, and local businesses for years to come.

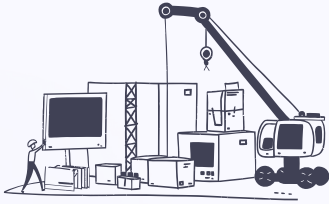
Project Overview

Location Arthur Street, Broughton Road & Mackenzie Street Intersection, Strathfield NSW	Client Strathfield Council
Timeline Mid-May to Early June 2025 (~4 weeks)	Delivery Method Night works to minimise community and traffic disruption

The project was commissioned to renew and upgrade pedestrian accessibility at one of Strathfield's busiest intersections. With heavy traffic and daily use by school children, parents with prams, seniors, and local workers, the upgrade was designed to provide safer crossings, smoother paths, and a greener, more welcoming streetscape.

This comprehensive infrastructure renewal addresses critical accessibility challenges whilst maintaining the area's connectivity and character. The strategic implementation of night works demonstrated our commitment to minimising disruption to the local community, ensuring businesses could operate normally and residents could maintain their daily routines throughout the construction period.

Site Establishment & Planning



Comprehensive Preparation

Before any construction began, our team conducted thorough site preparation to ensure a smooth and safe project delivery. This phase was critical to the project's success, establishing the foundation for all subsequent work whilst protecting existing infrastructure and the community.



- Full site survey and precise setout of all works
- Service scans and utility protection coordination
- Community notifications to residents, schools, and businesses
- Temporary bus stop relocation and traffic authority approvals
- Comprehensive dilapidation reporting
- Installation of sediment and erosion control devices
- Tree protection measures for existing street trees



Our proactive approach to site establishment ensured all stakeholders were well-informed and prepared for the upcoming works, whilst comprehensive protection measures safeguarded the existing environment and infrastructure.

Traffic & Safety Management



Traffic Guidance Scheme

Comprehensive traffic management plan implemented to maintain safe vehicle flow throughout construction



Licensed Traffic Controllers

Two qualified controllers on site at all times ensuring pedestrian and vehicle safety



Protective Measures

Parking patrols, safety barriers, and clear temporary signage maintained throughout



Authority Coordination

Road Occupancy Licence coordination with Transport for NSW ensuring compliance

Safety remained our top priority throughout the project. Working within a high-traffic intersection during night hours required meticulous planning and constant vigilance. Our comprehensive traffic management approach ensured the safety of our workers, the travelling public, and local residents whilst maintaining essential access to homes and businesses. The coordination with multiple authorities and service providers demonstrated our commitment to regulatory compliance and community responsibility.



Demolition & Preparation Works

01

Concrete Removal

Careful removal and disposal of existing concrete median islands, splitter islands, and outdated footpaths using precision equipment

02

Infrastructure Clearing

Removal of existing driveways, kerb ramps, kerb and gutter sections, along with outdated fencing and small retaining walls

03

Excavation Works

Strategic excavation and disposal of existing pavement areas designated for new landscaped garden bed installations

04

Site Preparation

Complete site clearing and preparation for the installation of new accessible infrastructure and landscaping features

The demolition phase required careful coordination to remove outdated infrastructure whilst preserving valuable existing elements. Our systematic approach ensured efficient removal of concrete medians, footpaths, and kerbing, creating clean foundations for the new accessible infrastructure. Environmental considerations guided our disposal methods, with materials recycled wherever possible to support sustainability objectives.



Concrete Infrastructure Construction

New Concrete Works Delivered

The concrete construction phase transformed the intersection with modern, accessible infrastructure designed to serve the community for decades to come. Each element was carefully planned and constructed to meet current accessibility standards whilst enhancing the overall streetscape.



60m²

Splitter Islands

Decorative bush rock
stencil finishes

96m

Semi-Mountable Kerb

Plus 18m kerb & gutter
extensions

All concrete works were completed to Australian Standards, with particular attention paid to accessibility compliance and durability in the local climate conditions.

6

Compliant Kerb Ramps

1.2m wide accessibility
features

38m²

New Footpaths

Broom finish concrete
surfaces



The construction incorporated reinforced concrete driveways, crossovers, and reinstatement of rainwater outlets to maintain optimal stormwater performance. Quality materials and expert craftsmanship ensure these improvements will provide reliable service well into the future.

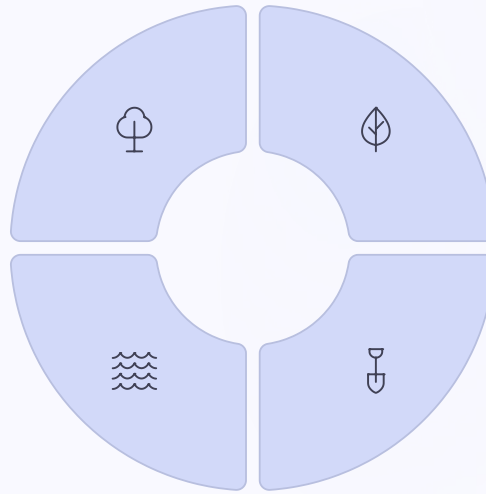
Landscaping & Environmental Enhancement

Feature Trees

4 new trees with high canopies planted for improved visibility and urban canopy enhancement

Maintenance Program

26-week establishment program including watering, weeding, and plant replacement



Native Shrubs

Over 200 native plants including Lomandra, Dianella, Westringia, and Grevillea varieties

Soil Preparation

200mm structural soil, 300mm organic soil, topped with 75mm premium mulch layer

The landscaping component created two vibrant garden bed areas that enhance biodiversity whilst requiring minimal ongoing maintenance. Our selection of native, drought-tolerant species supports local wildlife and reduces long-term water demands. The comprehensive soil preparation and extended establishment period ensures the plantings will thrive and provide lasting environmental benefits.

These green spaces not only improve air quality and urban heat mitigation but also create a more attractive streetscape that residents and visitors can enjoy. The strategic placement of feature trees provides natural shade whilst maintaining clear sightlines for traffic safety.



Sustainability & Environmental Responsibility



Tree Protection

Comprehensive tree protection measures and arborist supervision safeguarded existing mature trees throughout construction. Protective fencing and root zone management ensured valuable urban canopy assets were preserved for future generations.



Erosion Control

Sediment and erosion control devices were installed and maintained throughout construction, protecting local waterways and surrounding properties. Our environmental management approach exceeded regulatory requirements.



Native Species

Native, low-maintenance plant species were selected to enhance local biodiversity whilst reducing long-term water demand and maintenance requirements. These species support local wildlife and ecosystem health.



Sustainable Materials

Recycled and sustainable materials were utilised wherever possible, significantly reducing waste to landfill. Our commitment to circular economy principles guided material selection and disposal practices.

Environmental responsibility was embedded in every aspect of this project. From protecting existing trees to selecting drought-tolerant native plants, every decision considered long-term environmental impact. Our sustainable approach demonstrates that infrastructure development can enhance rather than compromise environmental values, creating spaces that benefit both community and ecology.



Measurable Community Impact

870 Metres

Of safer, smoother pathways for walking and cycling, creating continuous accessible routes throughout the intersection precinct

6 Kerb Ramps

New compliant accessibility features for wheelchair and pram access, meeting current Australian Standards for universal design

2.5m Wide Refuges

Pedestrian refuge islands creating safer crossings at this busy intersection, providing secure waiting areas for all users

200+ Native Plants

Plus 4 feature trees enhancing the urban canopy, improving air quality, and creating a more attractive streetscape

The quantifiable benefits of this project extend far beyond the physical infrastructure. By delivering these improvements through strategic night works, we minimised disruption to over 15,000 daily users of this intersection, including school children, commuters, and local business customers.

The accessibility upgrades ensure compliance with Disability Discrimination Act requirements whilst creating a more inclusive environment for all community members. Parents with prams, elderly residents, and mobility aid users now enjoy equal access to this vital transport hub, promoting independence and community participation.

Environmental benefits include improved stormwater management, reduced urban heat island effect, and enhanced biodiversity through native plantings. These improvements contribute to Strathfield's broader sustainability objectives and climate resilience.

Legacy & Future Value

"The Arthur x Mackenzie Pedestrian Accessibility Upgrade is more than a construction project – it's an investment in community safety, accessibility, and liveability."

With its safer crossings, modern pathways, and vibrant landscaped areas, this project has created a lasting legacy that will benefit residents, families, and businesses for generations to come. The infrastructure delivered will serve the community for decades, adapting to changing needs whilst maintaining its core function of connecting people safely.

The project demonstrates how thoughtful urban design can transform everyday spaces into community assets. By prioritising accessibility, safety, and environmental sustainability, we've created an intersection that serves as a model for future infrastructure development across NSW.

Beyond the immediate functional improvements, this project has strengthened community pride and demonstrated the value of investing in public infrastructure. Local residents, business owners, and regular users have expressed appreciation for the enhanced accessibility and aesthetic improvements.

At High End Civil, we are honoured to have delivered this transformative project and remain committed to building infrastructure that inspires pride and improves everyday life across NSW. This project exemplifies our dedication to creating spaces where communities can thrive, connecting people safely whilst respecting and enhancing the natural environment.

The success of the Arthur Street upgrade reinforces our belief that every infrastructure project is an opportunity to build a better future – one that prioritises people, sustainability, and lasting community benefit.