



A.B.N. 74 096 455 346



FOOTBRIDGE OVER MAIN SOUTHERN RAILWAY AT STATION STREET, MENANGLE

Methodology 1.1;
Date 28 May 2023

From:
Christie Civil Pty Ltd

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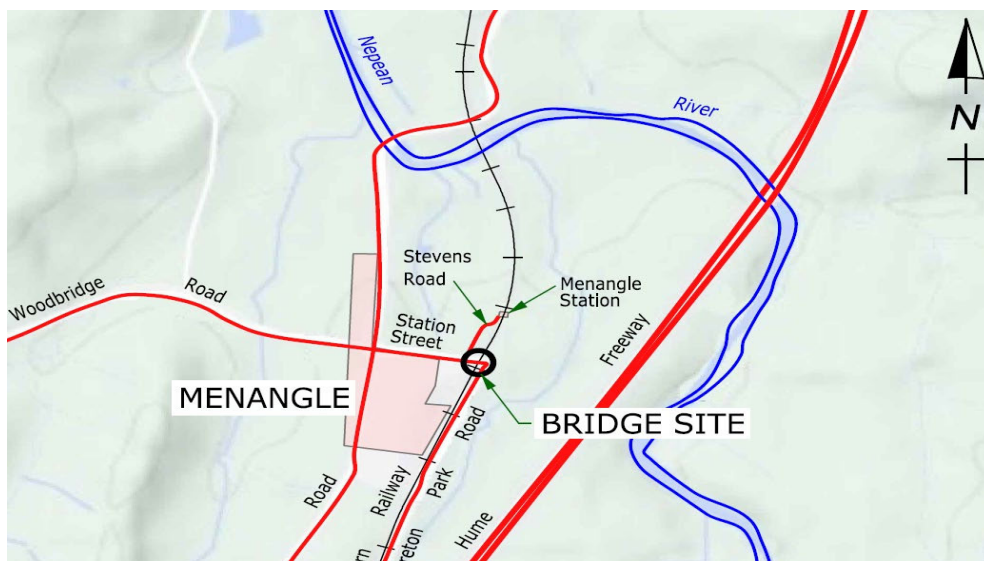
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SECTION 1 – PROJECT DESCRIPTION

Project Description –

This project is to construct a pedestrian foot bridge over the rail line & immediately to the north of Station Street.

The bridge will provide a pedestrian corridor between the subdivision that is being constructed to the east of the rail line &, the Menangle Township & Rail Station.



SECTION 2 – METHODOLOGY

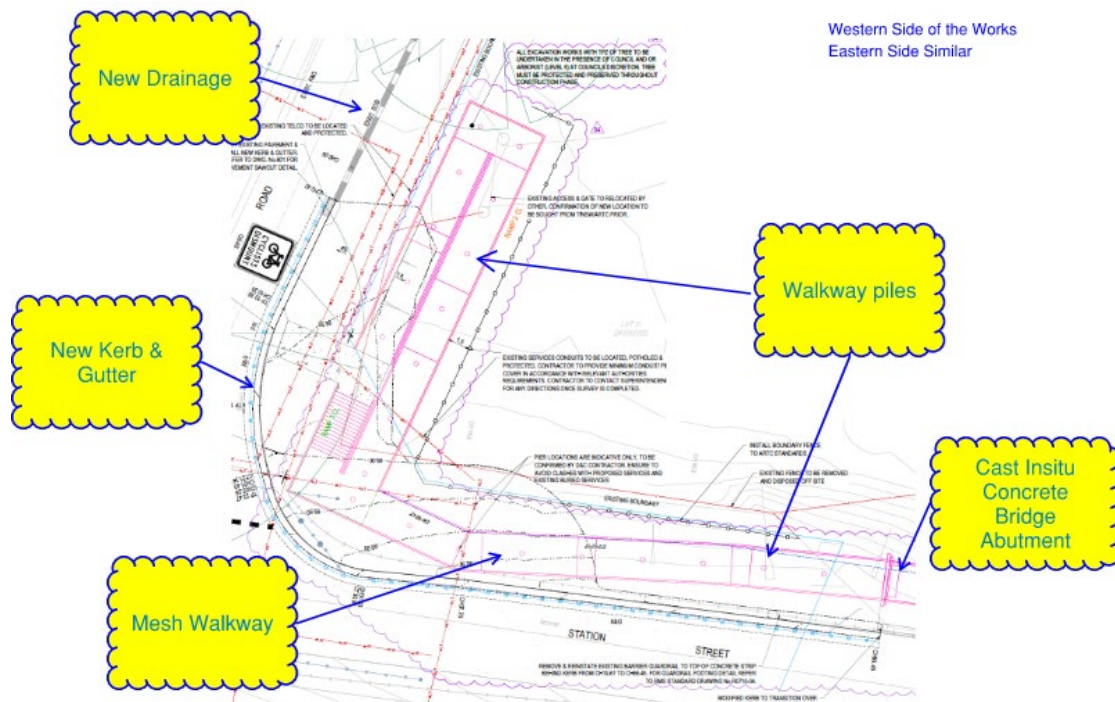
Methodology –

Christie Civil proposed sequencing & methodology is as detailed in the program contained in Section 4. In summary our sequencing is:-

1. Complete documentation
2. Procure Super T beam
3. Mobilise on site
4. An unexpected finds procedure will be developed & readied for implementation prior to excavation starting.
5. Tree clearing, demo & excavation
6. Piling
7. Concrete Abutments
8. Installation of precast concrete bridge girder
9. Construction of pedestrian ramps, handrails
10. Drainage works in Stevens Road
11. Concrete Footpath
12. Street Signage

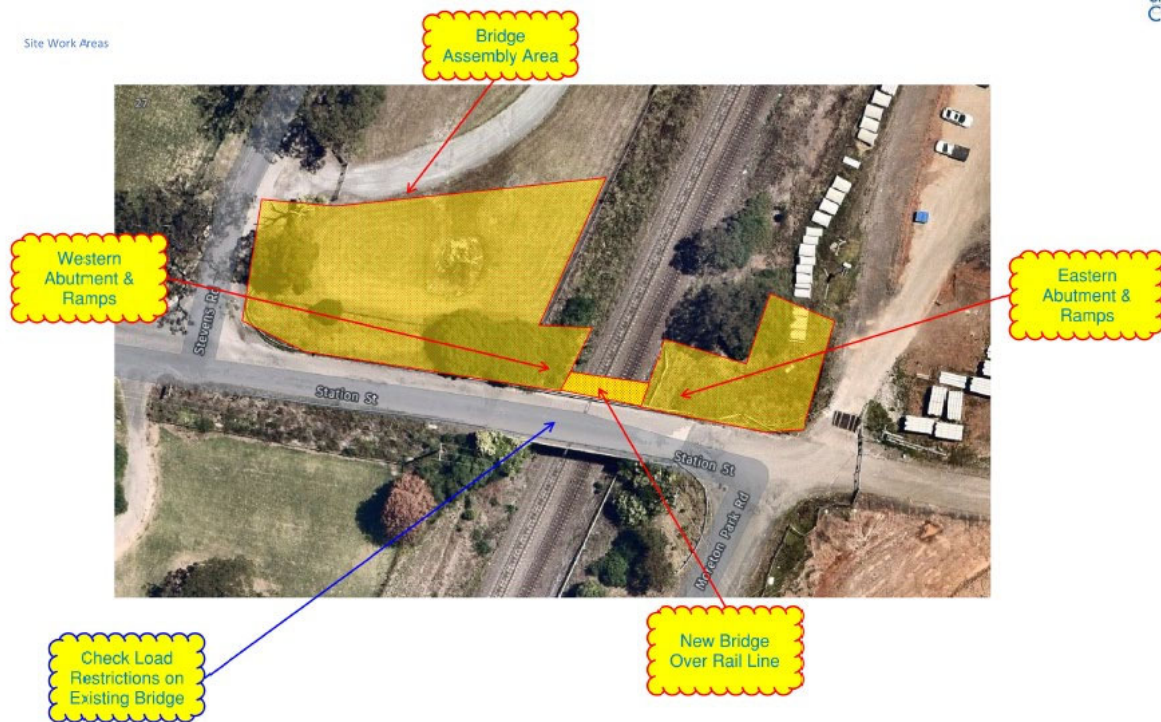
The potential risks that may be encountered are:-

- i. Affecting the operation of the Rail line.
- ii. Traffic: both within the site and on the adjacent roads
- iii. Overhead power cables & Underground services
- iv. Injury to workers & the public



Compound and Site Entry & Exit

For the beam & other large deliveries, we are planning to create an access into the Pacific National Site. This allows the smallest lifting reach & avoids any load restrictions on the bridge.



The site compound will be set-up to the east of the bridge. All materials will be stored in that area.

The bridge beam will be delivered, onto the ground. As much work as possible will be undertaken prior to the beam being lifted into position. This would include:-

- Installation of safety screen frames
- Sacrificial form work
- Deck edge boards
- Etc.

A 300T crane (estimated) will be used for the installation of the bridge beams.
Once the beams installed, the deck will be completed.

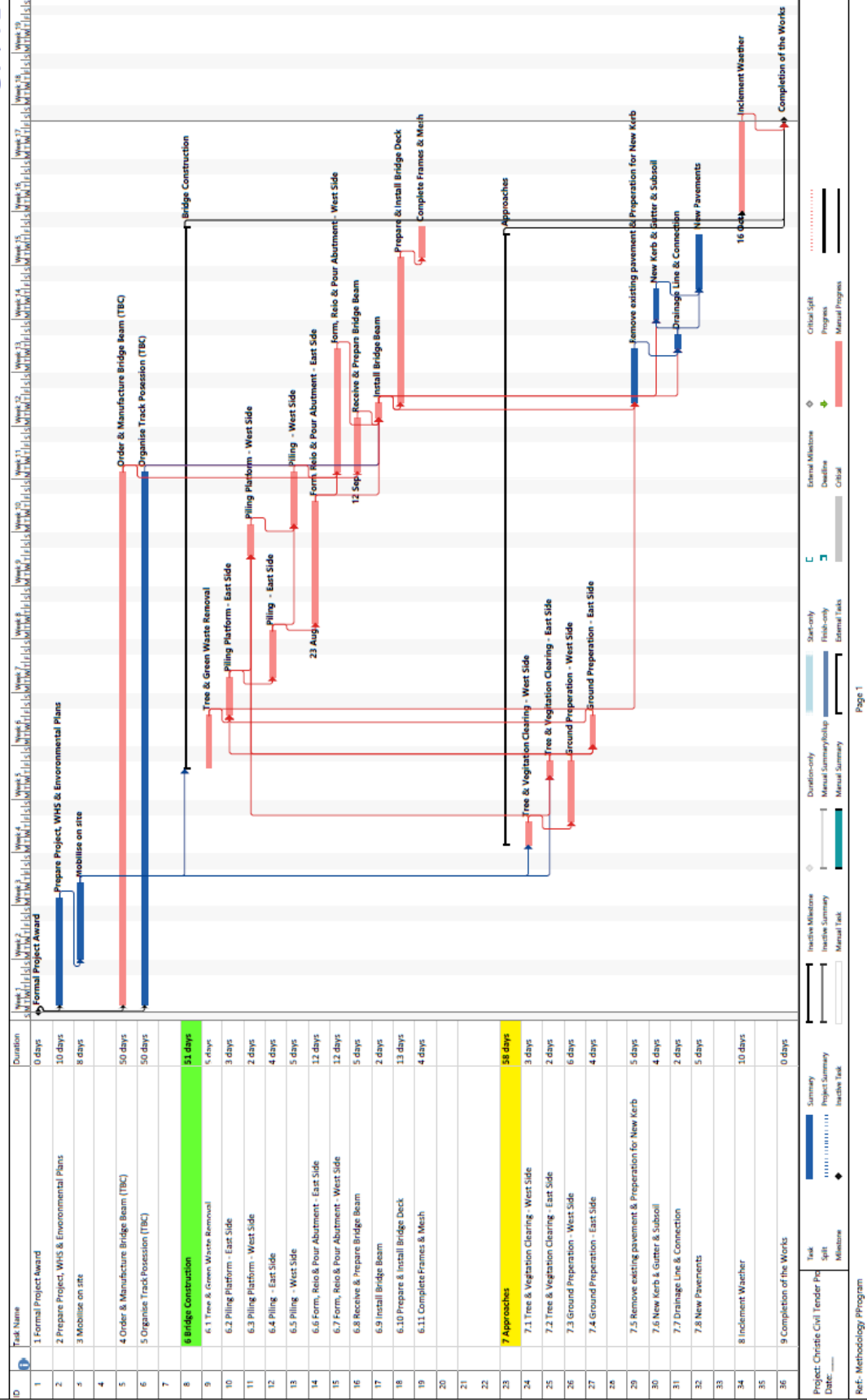
All ground works, piling, headstocks will be completed prior to the bridge beam arriving

Western Bridge Abutment



SECTION 3 - PROGRAM

FOOTBRIDGE OVER MAIN SOUTHERN RAILWAY
STATION STREET MENANGLE
Methodology Program 11.0



SECTION 4 – PROPOSED SUB-CONTRACTORS & MATERIAL SUPPLIERS

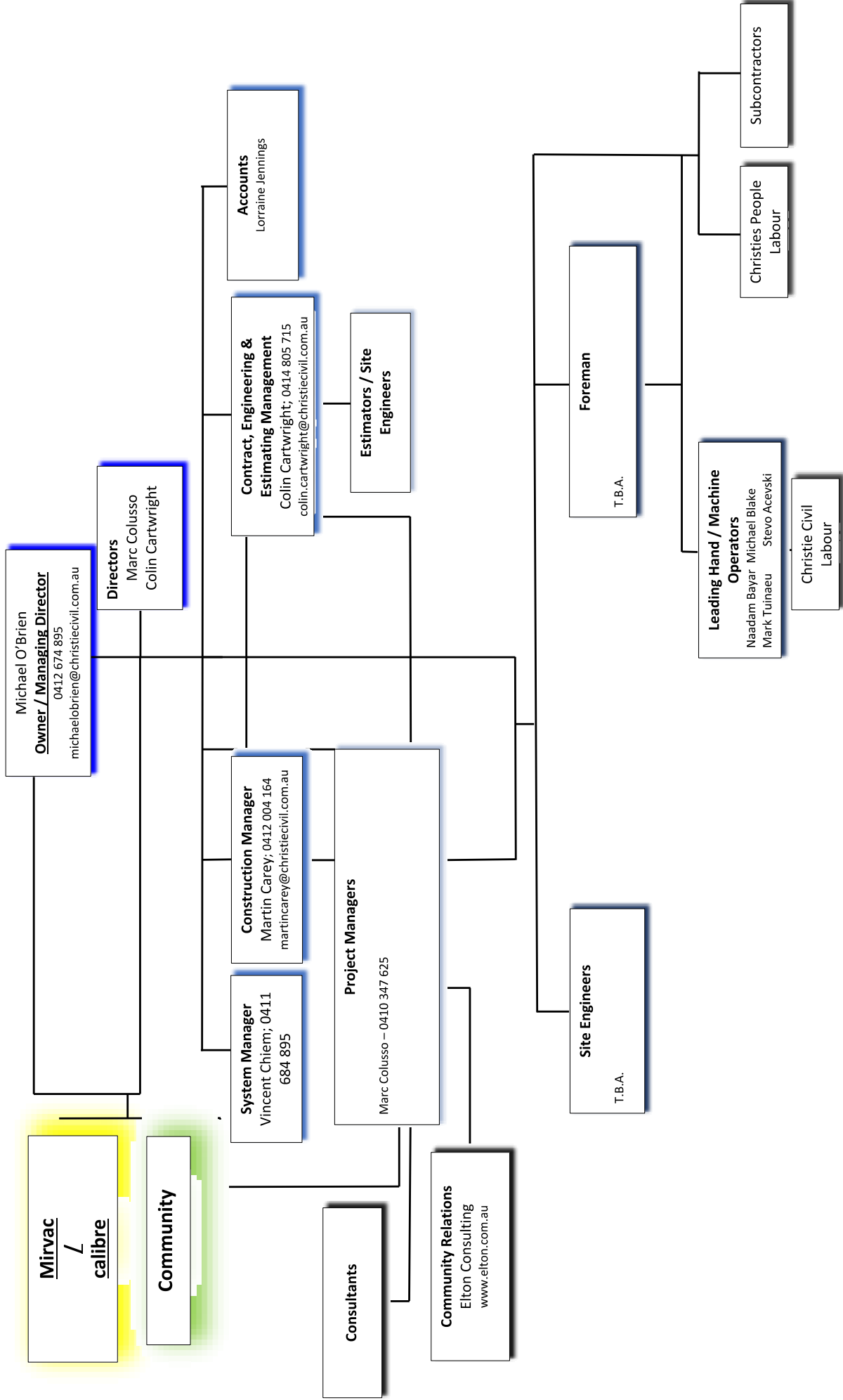
Table 1 - Proposed Subcontractors

No.	Name of Subcontractor	Subcontract Package	Contact Name and Number
1.	Tree Raider Pty Ltd	Tree clearing of large trees	Jeff Rider – 0414 762 797
2.	DGV	Formwork, reinforcement & concrete works	Dominic Vitagliani – 0404 054 573
3.	Structural Concrete Industries	Fabrication & delivery of precast bridge beam	
4.	Turnkey Engineering Or Greenwich Fabrications	Fabrication & installation of pedestrian walkway framing, anti-climb screens & handrails	Daniel Leon – 0404 123 296 Gerg Grigull – 0433 128 367
5.	MGI Piling	Piling	Michael Isaac – 0403 461 888
6.	Treadwell	Mesh Decking & Walkway	Samuel Doven – 0491 176 689
7.	Electrical	REES	James McMurtrie – 0413 707 468
8.		Asphalt - TBA	

Table 2 - Proposed Material Supplier

No.	Material	Supplier	Contact Name and Number
1.	Aggregates & Sand	Benedicts &/or Resource Co.	Daniel Balcombe - 02 9986 3500 Abdel Tahseldar - 0439 448 829
2.	Concrete	Hanson / Boral	
3.	Concrete Pipe	RCPA	Paul Briggs – 0404 446 580
4.	Reinforcement	Active Steel	Autal Farkas – 0404 161 187
5.			
6.			
7.			
8.			

SECTION 5 – PROPOSED COMPANY/PROJECT STRUCTURE



SECTION 6 – MANAGEMNET PLANS

Management Plans required for this project:-

- Integrated Project Plan
 - Quality Assurance / ITP's;
 - Work Place Health & Safety;
- CEMP / Soil & Water Management Plan (Frameworks included in Section 7);
- Traffic Management;

Attached are the front cover & index for the above proposed plans.

Other plans that maybe required are:-

- Clearing & Grubbing Plan &/or Tree Clearing Plan
- Asbestos Management Plan
- Rail Shutdown Plan



INTERGRATED PROJECT PLAN

Menangle Pedestrian Bridge

PROJECT NUMBER ??

Issue A; Date:

Project Revision

Controlled Copy Number

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1 INTRODUCTION

1.1 Scope of the Project Plan (PP)

This PP has been prepared by the Project Manager for this individual project, outlining the project-specific management requirements. It combines the quality, safety and environmental requirements for the project into one document.

The various sections of the PP together control the delivery of the project with regard to quality management, safety management, environmental management and traffic management (if applicable). The PP complements the Christie Civil Quality Manual, Safety Manual and Environmental Manual and together with the Standard operating procedures, Safety Procedures and Environmental Procedures and other referenced documents forms the management system for the project.

Section 1 of the PP details the layout of the PP and its contents. It contains an overview of the Christie Civil Management System, the Company's project management policy and how the PP integrates into the management framework. Sections 2, 3 and 4 detail respectively how project quality, safety and environmental requirements are identified, developed, managed and documented. Section 5 details the management practices and procedures for the planning and implementation of traffic management for the project. Section 6 constitutes the Record Management Plan for the project and outlines the procedures and activities that are used for the management of project records.

Where applicable for RMS projects, Sections 1 to 7 of the PP in conjunction with any referenced documents and forms satisfy the project requirements of RMS Specifications Q8 (Quality Management System), G22 (Occupational Health and Safety – Major Works), G36 / G38 (Environmental Protection – Management System) and G10 (Control of Traffic).

SECTION 7 – ENVIRONMENTAL MANAGEMENT PLAN

A detailed, project specific Environmental management plan will be developed for the project. The key aspects of that plan will be:-

Purpose & Scope

In accordance with Project Contract requires the Contractor to implement an CEMP for this project that complies with TfNSW Specification G38. It is to address all safeguards included in the Review of Environmental Factors.

The Contractor will demonstrate that “due diligence” is performed for the duration of the Contract in accordance with the NSW Protection of the Environment Operations Act, 1997, in preventing the pollution of the environment or the unlawful disposal of waste.

The CEMP is subject to audit – that is, it is used to assess conformance with environmental aspects, impacts and controls on the site.

The CEMP for the construction phases of the works will be prepared in accordance with the TfNSW Specification G38, Conditions of Approval, all relevant statutory Acts and Regulations, and any applicable Current Practices and standards endorsed by the NSW Government.

Christie Civil will ensure that the mitigation measures identified in the environmental impact assessment documentation and the Conditions of Approval are incorporated and detailed in this CEMP. The CEMP will

- (a) Identify the construction activities associated with the work, including construction sites and the staging and timing of the works
- (b) Identify statutory obligations which Christie Civil is required to fulfil during construction, including all approvals and licences
- (c) Include a communication strategy and complaints management procedure
- (d) Identify the environmental management structure indicating the responsibility, authority and accountability for personnel relevant to the CEMP
- (e) Provide details of construction personnel induction and training program. This will include incorporation of the CEMP into agreements with suppliers and subcontractors
- (f) Outline emergency procedures and list contact details
- (g) Provide details of measures to avoid and control environmental impacts as outlined in the environmental impacts assessment documentation.

Implementation and Operation

Training, Awareness and Competence

All workers will be suitably trained in the environment, will be aware of their responsibilities and competent to carry out the work.

The environmental requirements will be explained to employees during the site induction and ongoing training via Toolbox Talks.

All workers will receive induction/training in the following:

- The purpose of the CEMP
- Individual responsibilities
- The Significant Environmental issues to consider
- Potential consequences of departure from procedures
- Communication pathways for Environment related issues
- Emergency procedures and response
- Legal obligations

All training and Toolbox Talks shall be recorded and filed in the Environment Management File.

Communication and Reporting

Internal communication methods include the following, as applicable:

- Site meetings
- Project reports
- Audit reports
- Non-conformance reports
- Employee induction, training and Toolbox Talks (as required)

External communications methods include:

- Community consultation
- Discussions with adjoining landowners, neighbours who may be affected by the project
- Handling of complaints

Emergency Preparedness and Response

Environmental emergencies shall be handled in accordance with the Emergency Response Procedure as part of the Safety Management Plan. The Client and relevant statutory and regulatory authorities shall be informed of major non-conforming environmental incidents or pollution events.

Environmental incidents shall be handled as follows:

- Immediately report all incidents to the compliance@planning.nsw.gov.au after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident. Representative or their Delegate
- Immediately take all reasonable steps to contain further damage or danger to personnel and the environment
- Contact Emergency Services as necessary (e.g. ambulance, fire department, spill clean-up services, etc)
- Complete a detailed report of the incident and submit to the client within 5 days
- Initiate corrective and preventive action
- Records of Environmental Incidents to be maintained in *Incident Register*

Information on the handling of hazardous materials is contained in the SDS file.

Emergency Services contact numbers are displayed in the main Site Office.

Roles, Responsibilities and Accountabilities

The main groups responsible for the day-to-day environmental management on site are the Christie Civil Site Team, including the Project Manager, Site Supervisor (Foreman), Site Engineers and Leading Hands. Their roles, responsibilities and accountabilities are outlined below.

As this project has multiple sites, the responsible person from the Christie Civil management team on any day may be any of the above personnel. Any person adopting the supervisory role, short or long term is to be fully inducted into this CEMP.

Site Supervisors

The Site Supervisors manage contractors and construction on a daily basis to ensure the time, quality, financial, community and environmental targets of site are met.

Responsibilities

- Report directly to the Project Manager and inform the Project Manager on all environmental and community matters;
- Ultimately responsible to ensure that the EMP is implemented on-site;
- Ensure that all on-site personnel have undertaken the environmental Site Induction training prior to the commencement of works;
- Ensure that all Subcontractors comply with environmental protection programs appropriate to their activities;
- Ensure that all Subcontractors comply with community relations protocols and procedures;
- Ensure compliance with any resident agreements and commitments;
- Conduct regular site inspections, at least weekly and following rain events, of the site, surrounding areas and contractor activities;
- Record and action System Defects (i.e. spills, incidents and complaints) when required; and

Accountability

The Site Supervisor is accountable to the Project Manager for all site issues.

Environmental Benefits of Complying with EMP Procedures

The Site Induction process is designed to improve site personnel awareness of the impact of construction works on the local community and environment and what they can do to minimise these impacts. The benefit of site personnel adhering to the EMP requirements is that construction works will have minimal impact on the local community and the environment. The site environment may actually be enhanced through restoration works.

This is also a legal requirement. Issues raised in the REF have been approved under the EPA Act and as such must be adhered to.

Potential Consequences of Departure from Specified EMP Procedures

The benefit of site personnel adhering to EMP requirements is that construction works will have minimal impact on the environment. Consequences of departure from specified operating procedures could have the potential to impact on the Project in the following ways:

- ❑ Detrimental impacts on the environment
- ❑ Liability under environment protection legislation
- ❑ Personal fines and imprisonment
- ❑ Loss of company reputation

Notification requirements to SafeWork NSW concerning handling and removal of asbestos

Notifications of asbestos and demolition work provides risk-based information to SafeWork NSW so it can apply resources and target compliance and enforcement actions to areas of greatest risk to health and safety.

All main/subcontractors must:

- Notify SafeWork NSW **five calendar days** before undertaking any licenced asbestos removal work
- Notify Interstate asbestos removalists to notify SafeWork NSW when carrying out asbestos in NSW.
- Ensure that all asbestos removalists licenced in NSW and interstate asbestos removalists have lodged the notification electronically using [SafeWork NSW asbestos and demolition online notification system](#) for new user refer to the [Asbestos and Demolition ons user creation procedure](#).
- Contact SafeWork NSW on 13 10 50 if asbestos needs to be **removed immediately** and lodge a notification electronically using [SafeWork NSW asbestos and demolition online notification system](#) within 24 hours of the telephone notification.

OR

- Submit the [notification form](#) to adu@safework.nsw.gov.au or post to Asbestos and Demolition Unit, SafeWork NSW, PO BOX 1291, Liverpool NSW 1871

Asbestos fibres more than 0.02 fibres/ml

- For Class A work, the licensed asbestos removalist must order removal work to stop and notify SafeWork NSW immediately if respirable asbestos fibre levels exceed 0.02 fibres/ml in the removal area.

Type of Licence	What asbestos can be removed?
Class A	- Any amount of friable asbestos or asbestos containing material (ACM) - Any amount of asbestos contaminated dust or debris (ACD) - Any amount of non-friable asbestos or ACM

Compliance reporting

All documentation required for Construction Compliance Reports shall be submitted as requested. Documentation may include:

- a results summary and analysis of environmental monitoring;
- the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints;
- details of any review of the Construction Environmental Management Plan (CEMP) and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period;
- a register of any modifications undertaken and their status;
- results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;
- a summary of all incidents notified in accordance with this consent; and
- any other matter relating to compliance with the terms of this consent or requested by the Client & Approval Authorities

Summary of Major Environmental Issues

Aspect	Issue/Impact
Drainage and Run Off	Soil erosion and sedimentation making its way into waterways
Flora and Fauna	Unauthorised destruction of fauna and flora
Heritage	Destruction of important or protected heritage items
Traffic and Access	Control and safety of pedestrian, workers and motorists
Air Quality	Air pollution
Worker and Public Safety	Potential accidents to public and workers
Noise	Noise pollution
Waste Disposal	Poor management of waste

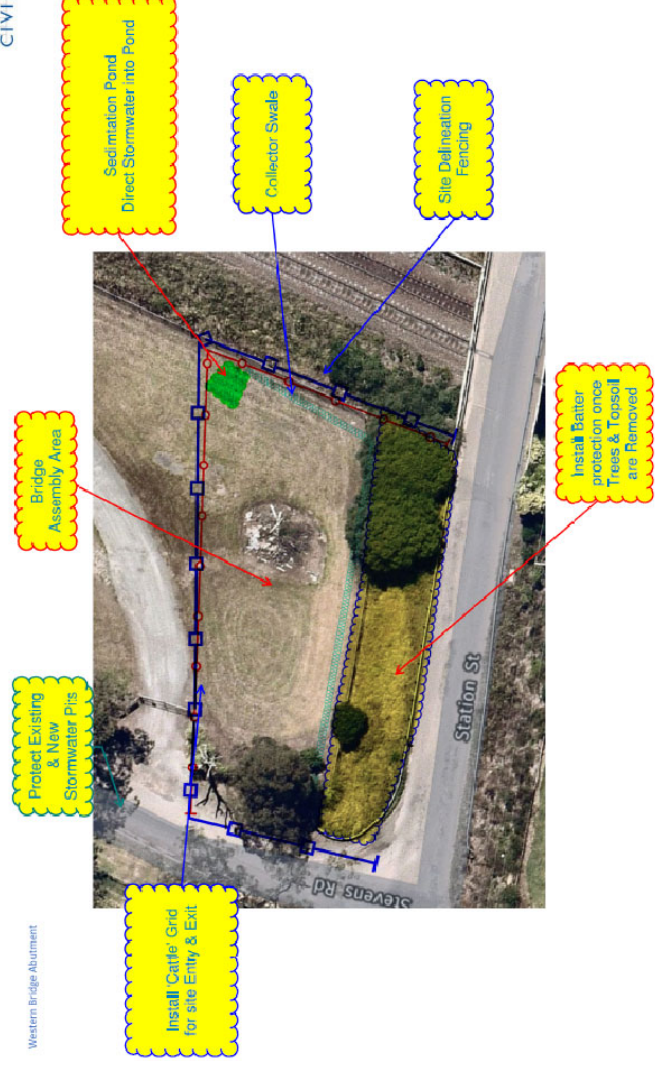
Site Environmental Controls

Eastern Bridge Abutment

Install Batter protection once Trees & Topsoil are Removed



Western Bridge Abutment



Site Environmental Aspects, Impacts & Safeguards

	Aspect (Add Additional Aspects)	Impacts	Risk *	Applicable Legislation / Regulation	Control Measure	Residual Risk*	Responsibility	Monitoring Requirements
1	Unauthorised removal of trees and any work to neighbouring properties.	Possible unauthorised clearing, damage to environment, Fines	9		Include in induction that No works, including tree removal, are to be undertaken without the proper approvals being granted Ensure (a) no street trees on public land are trimmed or removed unless it forms a part of this development consent or is required in an emergency to avoid the loss of life or damage to property; (b) all trees that are not approved for removal are to be suitably protected by way of tree guards, barriers or other measures to protect the root systems, trunk and branches during construction, in accordance with AS 4970:2009; and (c) any removal works are to be undertaken by a qualified arborist recognised within the Australian Qualification Framework, with a minimum five years of continual experience within the industry of operational amenity arboriculture and covered by appropriate and current types	3	FM	Daily visual monitoring.

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				of insurance to undertake such works and in accordance with AS 4373:2007. Biodiversity Plan – see below			
2	Reporting damage to adjacent property	To confirm condition of surrounding areas prior to works to assess any possible damage caused by the works and to prevent false claims of damage.		Engage a suitably qualified structural engineer to prepare a Pre-Construction Dilapidation Report, detailing the current structural condition of all the existing structures & roads within the 'zone of influence'.	2	PE	Prior to commencement and at completion
3	Dust and air quality	Possible air pollution		Dust Management Plan, incorporating the mitigation measures outlined in the Air Quality Assessment, prepared by WSP, dated October 2018 Adequate measures shall be taken to prevent dust from affecting the amenity of the neighbourhood during construction. In particular, the following measures should be adopted: a) physical barriers shall be erected at right angles to the prevailing wind direction or shall be placed around or over dust sources to prevent wind or activity from generating dust emissions; b) earthworks and scheduling activities shall be managed to coincide with the next stage of development to minimise	4	PE / FM	Daily monitoring

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				the amount of time the site is left cut or exposed; c) all materials shall be stored or stockpiled at suitable locations and stockpiles shall be maintained at manageable sizes which allow them to be covered, if necessary, to control emissions of dust and/or VOCs/odour; d) the surface should be dampened slightly to prevent dust from becoming airborne but should not be wet to the extent that run-off occurs; e) all vehicles carrying spoil or rubble to or from the site shall at all times be covered to prevent the escape of dust or other material; f) gates shall be closed between vehicle movements and shall be fitted with shade cloth; and g) cleaning of footpaths and roadways shall be carried out regularly Prior to the commencement of any works, an Air Quality and Odour Management Plan (AQOMP) must be prepared and submitted to the Certifier. The AQOMP must recommend measures to minimise and manage any odours arising from excavation, stockpiling and removal of contaminated soils including, but not limited to: (a) staged excavation to limit the surface area of exposed odorous material;			

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				(b) application of odour suppressants; (c) effective covering of stockpiles and truckloads of excavation spoil; and (d) expedited removal of odorous material from the development to a facility legally able to accept those wastes. The AQOMP must include proactive and reactive management strategies, key performance indicators, monitoring measures, record keeping, response mechanisms, contingency and compliance reporting measures. Ensure that stockpiles are small in size and can be easily managed in high winds or other dust generating weathers. Where a stockpile is to exist permanently without addition or removal of material for a period of longer than 2 months, the stockpile must be seeded or covered in geotextile material. When dust is coming from a stockpile it shall be covered, kept wet, or otherwise prevented from creating further dust If weeds are present and are to be removed during construction works they will be disposed in consultation with the client and not mulched for reuse in follow up revegetation programs. On completion of all works, repair any damage to grassed areas by seeding.			

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				turfing and revegetation to return to original state.			
4	Soil and water management	Uncontrolled sedimentation and water into waterways.	TfNSW Specification G38	A Construction Soil and Water Management Plan (CSWMP) must be prepared to manage soil and water impacts during construction of the Bridge & associated ramps. Any temporary bunding and water diversions should be designed by an appropriately qualified Civil Engineer (registered on the NER of Engineers Australia), or equivalent. The bunding and diversions shall be monitored, especially at the onset of a storm event and measures put in place to remove or modify the structures so that adjoining properties are not exposed to any greater flood impact. Water quality targets in accordance with all relevant guidelines must be maintained throughout all construction phases. Testing shall be carried out at a frequency of no less than every three (3) months and inspections and certification shall be undertaken by a suitably qualified Chartered Civil Engineer (registered on the NER of Engineers Australia), or equivalent. Certifications demonstrating compliance shall be submitted to the Certifier.	6	PE / FM	Before and after rail events

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
5 Pedestrian traffic control	Impact on pedestrians and traffic	15		Prior to the commencement of any works, a Construction Pedestrian and Traffic Management Plan (CPTMP) prepared by a suitably qualified person shall be endorsed by TfNSW (Sydney Coordination Office) and submitted to the Certifier. The CPTMP must be prepared in consultation with Council, TfNSW (Sydney Coordination Office), and TfNSW (RMS). The CPTMP shall address (but not be limited to): a) location of the proposed work zone; b) haulage routes; c) construction vehicle access and traffic control arrangements; d) proposed construction hours; • e) estimated number of construction vehicle movements; f) any changes required to on-street parking; g) construction program; h) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the construction; i) cumulative construction impacts of projects considering any traffic and	5	PE / FM	Daily

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				pedestrian management plans prepare for these projects to ensure that work activities are coordinated and managed to minimise impacts on the road network. Information relating to cumulative construction impacts to be sourced from TfNSW (Sydney Coordination Office); j) measures to ensure construction vehicles do not arrive at the site or surrounding areas outside approved hours; k) measures proposed to mitigate any associated general traffic, public transport, pedestrian access and cyclist impacts/conflicts; l) measures to encourage public transport use and other non-car travel options by construction workers. Prior to the commencement of works, a copy of the CPTMP demonstrating compliance with the above must be submitted to TfNSW and the Planning Secretary. Unless otherwise authorised, the public way must not be obstructed by any materials, vehicles, refuse skips or the like, under any circumstances. Non-compliance with this requirement will result in the issue of a notice by the Planning Secretary to stop all work on site			

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				Any damage to the public way, including trees, footpaths, kerbs, gutters, road carriageway and the like, must immediately be made safe and functional by the Applicant.			
6	Noise and vibration	Noise pollution and damage to neighbouring properties due to vibration		The development must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise and vibration mitigation measures shall be implemented and any activities that could exceed the construction noise or vibration management levels shall be identified and managed in accordance with the CEMP and CNVMP. If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the NSW Industrial Noise Policy), 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels. The Applicant must schedule intra-day 'respite periods' for construction activities predicted to result in noise levels in excess of the "highly noise affected" levels, including the addition of 5 dB to the predicted levels for those activities identified in the Interim Construction Noise Guideline as being	5	PE / FM	Daily monitoring

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				particularly annoying to noise sensitive receivers. Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles. If driven piles are required, they must only be installed where outlined in the CEMP. Vibration caused by construction at any residence or structure outside the subject site must be limited to: - or structural damage vibration to buildings (excluding heritage buildings), British Standard BS 7385 Part 2- 1993 Evaluation and Measurement for Vibration in Buildings; - for structural damage vibration to heritage buildings, German Standard DIN 4150 Part 3 Structural Vibration in Buildings Effects on Structure; - for human exposure to vibration, the evaluation criteria presented in British Standard BS 6472- Guide to Evaluate Human Exposure to Vibration in Buildings (1Hz to 80 Hz) for low probability of adverse comment; and - these limits apply unless otherwise outlined in the CEMP.			
7 Waste management	Waste pollution	15		Prior to the commencement of any works a Construction Waste Management Plan (CWMP) must be developed. The CWMP must include, but is not limited to, the following information:	5	PE / FM	Daily

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				(a) the estimated volume or weight of materials that will be reused, recycled or removed from the site; (b) on-site material storage areas during construction; (c) materials and methods used during construction to minimise waste; (d) provide details demonstrating compliance with the relevant legislation, particularly with regard to the removal of asbestos and hazardous waste, the method of containment and control of emission of fibres to the air; (e) nomination of the end location of all waste and recycling generated from a facility authorised to accept the material type for processing or disposal; and (f) identification within the CWMP of the responsibility for the transferral of waste and recycling bins within the site to the collection point. All requirements of the approved CWMPs must be implemented during the excavation and construction of the development.			
8 Biodiversity	Unauthorised removal of vegetation. Disturbance or fauna, revegetation	15	Native Vegetation Act 2003	Prior to the commencement of the relevant works, the contractor must prepare a Biodiversity Management Plan (BMP) for the site.	5		

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				The BMP must include: a) pre-clearance surveys and clearance supervision of hollow bearing trees b) the replacement of all removed hollows with artificial nest boxes or the removed hollows at a ratio of 1:4 (removed/replaced), with installation occurring within the retained vegetation adjacent to the works c) the use of local provenance species appropriate for the threatened ecological communities and plant community types if present on the site e) appropriate monitoring and maintenance periods of the vegetation to ensure its long-term viability following the completion of the rehabilitation works for ten (10) years. f) a Weed Management Plan.			
9	Hazardous materials / asbestos	15		The Applicant shall comply with any notification requirements to SafeWork NSW concerning the handling and removal of any asbestos Prior to the commencement of any work, the Applicant is required to satisfy the requirements of the Protection of the Environment Operations (Waste)	4	FM	Daily

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				Regulation 2014 with particular reference to Part 7 'asbestos wastes'.			
10	Protection of Councils stormwater infrastructure			An electronic closed-circuit television report (track mounted CCTV camera footage) prepared by an accredited operator that assesses the condition of the existing drainage line immediately adjacent to the site, is required. This report shall include the date of CCTV inspection and shall be submitted to Council's City Works Directorate prior to commencement of any works.			
11	Protection of heritage	12		If during the course of construction, the Applicant becomes aware of any previously unidentified heritage object(s), all work likely to affect the object(s) must cease immediately and the Heritage Division must be notified immediately and consulted with regard to the recommencement of works. This protocol must be included in the induction for all construction workers on the site. If during the course of construction the Applicant becomes aware of any previously unidentified Aboriginal object(s), all work likely to affect the object(s) must cease immediately and EESG informed in accordance with section 89A of the National Parks and Wildlife Act 1974. Relevant works must not recommence until written	3	FM	Daily

	Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
					authorisation from the Heritage Division is received by the Applicant. This protocol must be included in the induction for all construction workers on the site. If any previously undetected Aboriginal site, artefact or European Heritage item is uncovered during construction, cease work, fence off area, and report to the PM immediately.			
12	Truck movements	Accidents during truck movements	15		The following requirements apply: a Works Zone is required if loading and unloading is not possible on site. If a Works Zone is warranted an application must be made to the relevant road authority at least 8 weeks prior to commencement of works on the site. Consent for a Works Zone may be given for a specific period and certain hours of the days to meet the particular need for the site for such facilities at various stages of construction. The consent will be reviewed periodically for any adjustment necessitated by the progress of the construction activities. All construction vehicles must be wholly contained within the site and vehicles must enter the site before stopping.	4		
12	Moving Plants and Machines Carting Material off site		10	Protection of Environment Operations	Minimise the area of land disturbed during construction and progressively revegetate (if possible).	4	FM SE	Daily visual monitoring Day sheets

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
Excavation Jack Hammering Un protected Stockpiles Demolition Piling	Dust		Act 1997 (POEO Act) – Section 5.4 Air Pollution: s124, s125, s126	- Equipment storage areas to be defined on site. - Mud and soil will be removed from wheels and bodies of construction vehicles and equipment before they enter public roads - Clean public roads of dirt resulting from construction works daily and/or as required. - Re-program construction activities to avoid periods of strong winds if dust generation is a problem. If not possible to re-program, use water to dampen cleared areas and stockpiles. - All stockpiles to be covered and protected from silt runoff and debris in high winds - Trucks containing materials that have the potential to create dust during transport to and from site will be covered and their tailgates secured, as required. - Dust monitoring to be conducted where required and to meet council regulations		Operators FM PM Operators	Site Plan
13 Faults in Plants, Machines and Vehicles	CO2 Emissions	10		Supervisor/contractors to undertake and record maintenance checks of plant/equipment brought to site to ensure they do not have smoky exhausts.	4	FM / Operators Operator FM	Daily visual monitoring Day sheets Plant Inspection Checklists

	Aspect (Add Additional Aspects)	Impacts	Risk *	Applicable Legislation / Regulation	Control Measure	Residual Risk*	Responsibility	Monitoring Requirements
					- Ensure machinery or plant is not left running idle when not in use for extended periods. - No burning of vegetation on site.			
14	Out-of-hours work Deliveries outside work hours Moving Plants and Machines outside work hours Any work activities outside the allowable work hours	Operating Hours		Local Council Regulations	- Out-of-hours work or deliveries only to occur if approved by the PM. All noise complaints to be dealt with by PM. - Minimise noise impact and general disruption to nearby residents. - If night works are conducted, ensure approval and requirements have been met by council - If regular work hours are changed, notify appropriate authorities and clients for approval to change times.		PM All staff / FM	
15	Excavation of services Cranes Boring Piling Compacting	Damage to Services			- Obtain underground network information from Dial Before You Dig - Perform onsite inspections for presence of assets - Observe minimum depths and clearances as stated on the plans - Pothole to establish the location of services - Protect and support exposed infrastructure - Dig by hand when excavating close to known services		PM FM FM FM FM FM	Asset Owner Plans Daysheets Permit to Excavate SWMS Toolbox Talk

	Aspect (Add Additional Aspects)	Impacts	Risk *	Applicable Legislation / Regulation	Control Measure	Residual Risk*	Responsibility	Monitoring Requirements
					• DUDDS to conduct service search prior to construction if services are unknown			
16	Excavation of services Boring Oxy & Acetylene cutting Grinding	Fires Explosions Gas Leaks			• Obtain underground network information from Dial Before You Dig • Perform onsite inspections for presence of assets • Observe minimum depths and clearances as stated on the plans • Pothole to establish the location of services • Protect and support exposed infrastructure • Dig by hand when excavating close to services • Hot work permits to be issued while conducting hot works • Area to be clear of flammable liquids and solids while cutting • Where applicable Emergency procedures shall be displayed in a prominent position within the site working area. All staff to be familiar with the location and contents of the emergency procedures. • • Truck Tipping / Waste Sheets to be used to track removal of contaminated fill		PM FM FM FM FM FM Asset Owner Plans Daysheets Permit to Excavate SWMS Toolbox Talk Hot Work Permits	
17	Contaminated soil is carted off site and disposed of improperly						FM	DECCW Guidelines for Concreting

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
	Contamination & Pollution			- Where possible, stockpile and reuse fill - Any contaminated material carted off site is to be disposed of at an approved DEC landfill - Any fill being removed from site is to be tarped and secured to prevent spillage in transit - Trucks are to be wheel washed before leaving site. Egress from the wheel wash area is to be clean and free of debris. - Records of tracking waste log to be maintained on all disposed material. Test certificates required where applicable		FM FM Operators FM	Contractors Site Inspection Checklist Day sheets Waste Log Waste Dockets Laboratory Analysis
18 A spill or disposal of a hazardous substance				- No bulk storage of hazardous substances or dangerous goods at any site. - Provide bunded and impervious storage areas for fuels and chemicals in accordance with AS1940 – <i>Storage and Handling of Flammable and Combustible Liquids</i>. Bunded areas shall have a storage capacity of 110% of the volume of stored. No general construction material will be stored in this area. - Ensure refuelling and servicing, or any other activity that may result in the spillage of a chemical, fuel or lubricant where contamination of a waterway		FM FM FM PM FM	Site Inspection Checklist Day sheets Site Plan showing bunded chemical storage area SDS Mini tanker refuelling procedure or Toolbox record of manual

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
				could occur, is undertaken in a manner that minimises risk to the environment (eg. refuelling with a Mini-tanker with a spill kit and emergency response procedures). - Where applicable an Emergency procedure shall be displayed in a prominent position within the site working area. All staff to be familiar with the location and contents of the emergency procedures. - Spill kit will be maintained on site when chemicals or fuels are stored on site. Spillages of chemical will be cleaned up immediately			refuelling procedure Toolbox meeting for spill kit use Site Induction
19 Untidy Site Inadequate site records or reporting Dust from work activities Dirt on road from vehicles exiting the site Night Works	Community Complaints			- Ensure the work site and surrounding area is kept clean and tidy. - Ensure site signage is hung straight and replaced (within 5 working days) if damaged or stolen. - Shade cloth to be erected around the site - Ensure community issues (including Systems Defects) are covered in induction and site toolbox meetings. - Client to be kept informed at all times of our proposed construction		FM / PM	Complaint Register Toolbox meetings Site induction Agreements

Aspect (Add Additional Aspects)	Impacts	Risk [*]	Applicable Legislation / Regulation	Control Measure	Residual Risk [*]	Responsibility	Monitoring Requirements
Noise from work activities				activities and any potential impacts on their operation. Where construction activities are to be conducted outside of agreed circumstances, both the client and Christie Civil are to reconsider activity where possible. When this is not possible, the client is to facilitate communication of activities to residents.			

RISK MATRIX

Probability		RISK				
Descriptive	Qty/yr	Relational				
Very High	>1-0.1	Happens to you often	5	10	15	20
High	0.1-0.01	Likely to occur in your lifetime	4	8	12	16
Medium	0.01-0.001	Likely to occur to someone you know	3	6	9	12
Low	0.001-0.0001	Does occur in industry	2	4	6	8
Very Low	< - 0.0001	Extremely unlikely world event	1	2	3	4
		Safety	First aid (minor)	First aid (Major)	Lost time injury	Disability, major health issue
		Environment	Negligible minor spills	Minor effects, neighbour/council	Significant release/damage	Major issues, potential for news coverage
						Fatalities
						Massive Damage, Press/TV coverage

Risk Reduction Methods



All risks should be minimised as far as reasonably possible

RISK ACCEPTANCE

<5 - Acceptable
>5 - Avoid/mitigate
>10 - Mitigate/Unacceptable (address concerns)
>20 - Address concerns immediately

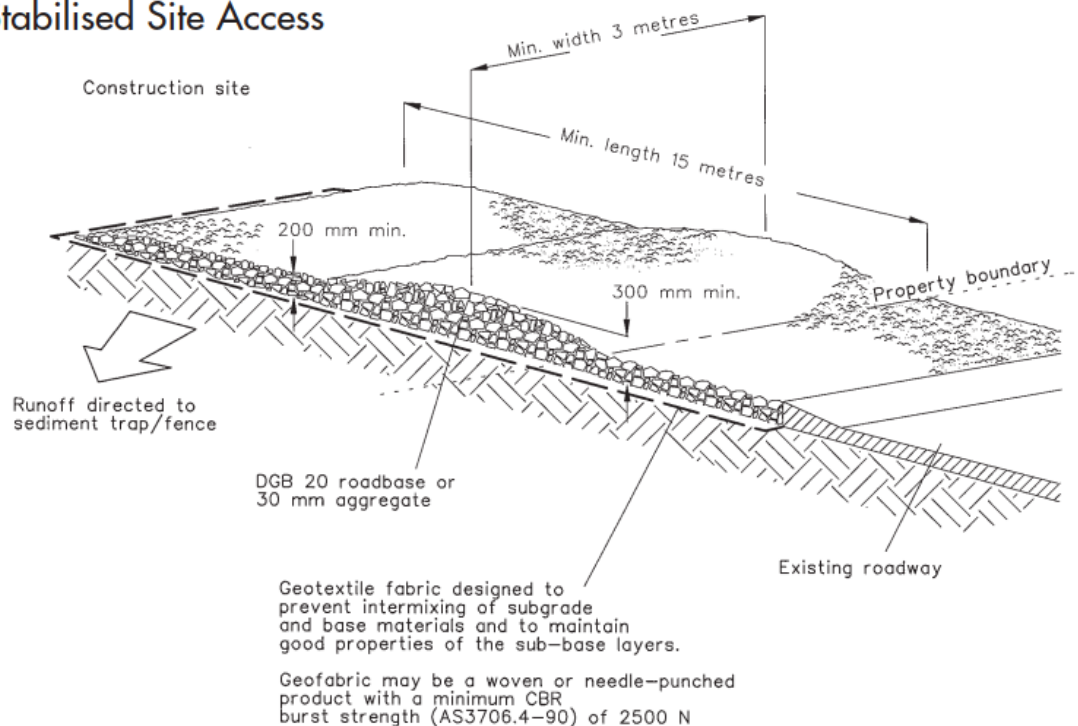
If a 15 or greater is received in identifying the site aspects and impacts in the risk matrix, it is then considered significant. In this circumstance, additional supervision, implementation and corrective controls need to be efficiently and effectively constructed in order to minimise the risks of its impact or eradicate it completely. An SOPF3.02.11 - Emergency Preparedness and Response Plan, is required for risks rated greater than 15.

Typical Erosion & Sedimentation Control Measures

Stabilised Site Access/Egress

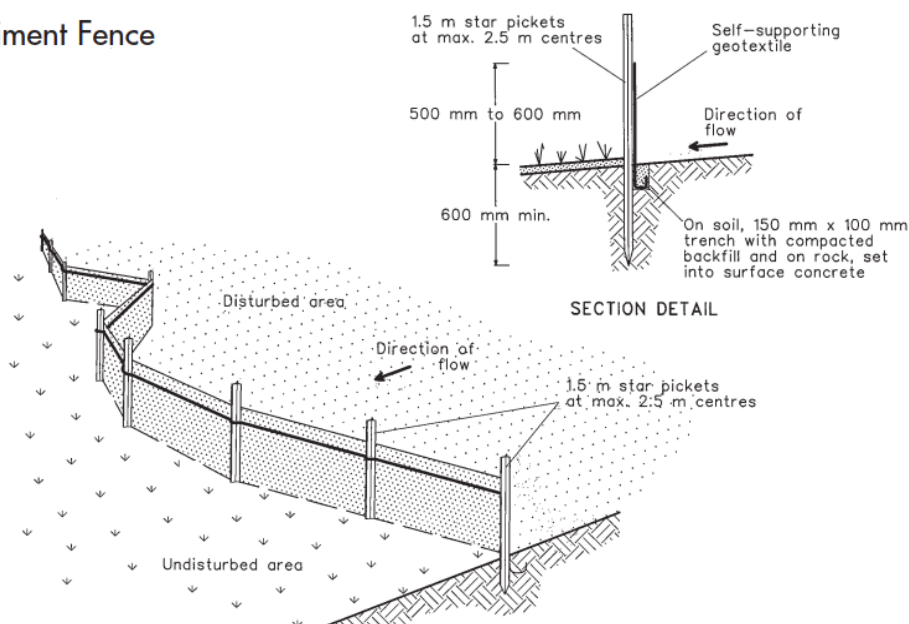
As part of works involved in site establishment, stabilised site access/egress will be established to minimise sediment being tracked onto roads from construction vehicles. As shown in the Figure below, the stabilised site access/egress will be established at the interface of existing Road and new works area. Shaker grids will be installed at these locations.

Stabilised Site Access

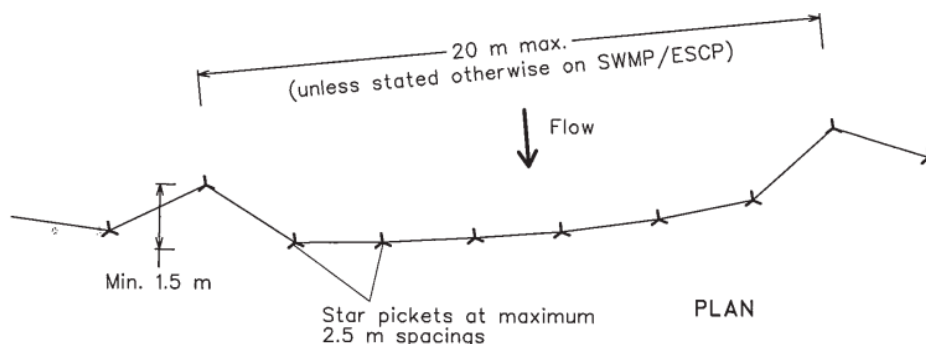


Stabilised Site Access/Egress

Sediment Fence



Sediment Fence



Sediment Fences & Ground Cover

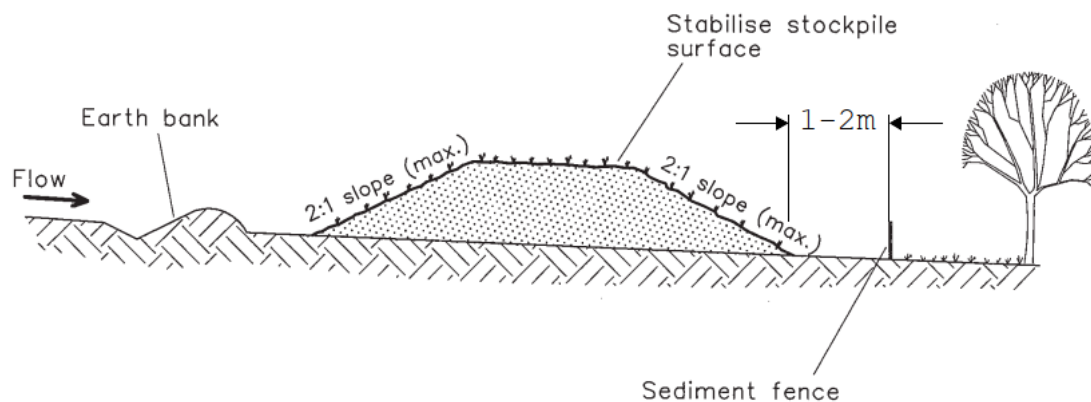
Sediment fences are to be established around the disturbed work areas to capture dirty run-off water. Generally, sediment fences are to be constructed at locations as shown on the following site sketches or where sediment control is required to capture dirty water run-off from areas disturbed by the construction works. Sediment controls are to be installed as per the above details.

Although not depicted on the attached sketches, ground cover, through the use of geofabric, is to be utilised where practicable during the course of the construction works. Ground cover should be established on steep or inactive disturbed work areas, specifically prior to rainfall.

Stockpiles

All topsoil stripped as part of the clearing and grubbing works will also be stockpiled. Stockpiles are to have sediment controls installed as required, as shown below.

Stockpiles



Stockpile Detail

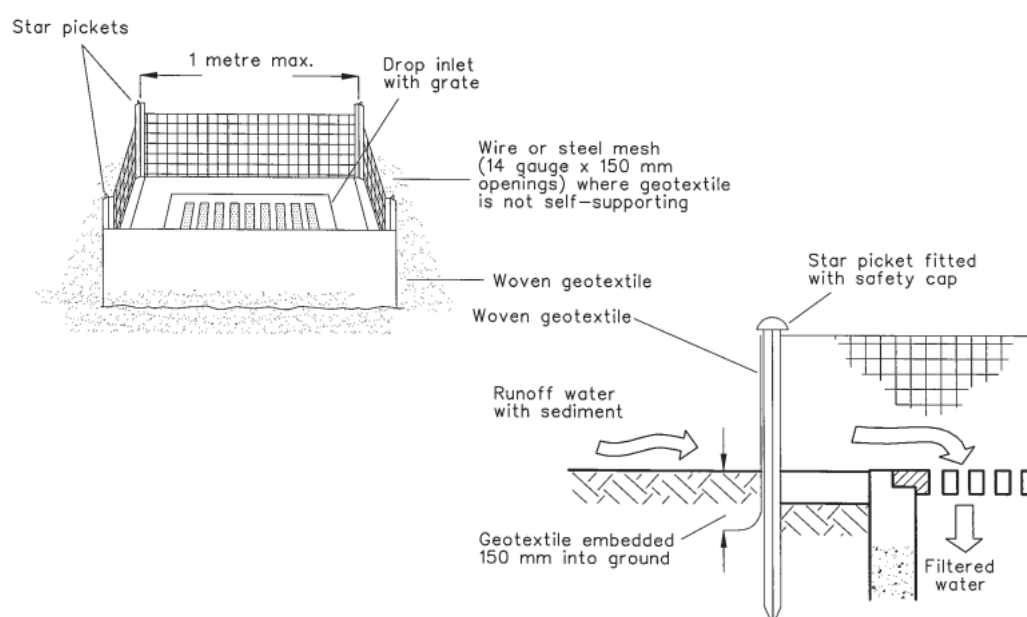
Redirecting Overland Flow from Undisturbed Areas

The installation of an earth bund around the perimeter of the works, will capture and redirect the overland flow away from the work area and channel this into the relocated swale. Similar bunds may need to be created during the project as required to redirect sheet flow from undisturbed areas away from the disturbed work areas.

Stormwater Pits Inlet Protection

At a later stage, after the construction of the stormwater drainage pipes and pits, sediment entering these various pits will be controlled through measures shown below.

Geotextile Inlet Filter



Drop Inlet Protection Measures for Stormwater Pits

Dewatering

Where excavations are required to be dewatered, a Dewatering Permit is to be completed prior and signed off by the site supervisor. All water that has achieved the required turbidity and pH levels, as required by the permit and per the Blue Book, is to be discharged into the sediment basin or stormwater pit or drain. Where required, dirty run-off water can be pumped back onto site, as long as it is captured by sediment fences and does not leave the site.

Excavation for trenches or pits should not be carried out if inclement weather is forecast. All excavations of this nature should be carried out in a timely manner and backfilled prior to rain events.

Sediment Basin

Sedimentation basins will be constructed of each side of the works; see following site sketches for locations.

Sizes of the basins will be as based on the detail's contained in the "BLUE BOOK". The critical information to be determined is:

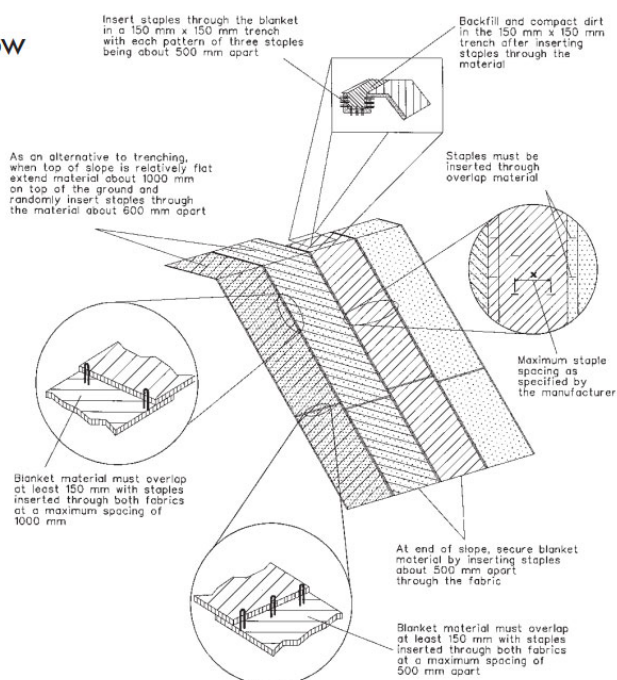
- Total minimum volume = T.B.A.m³
- Base RL. = T.B.A.
- Max ponding level in 100YR = RL T.B.A.

Ground Cover

Ground cover should be utilised on steep or inactive areas of the bridge work zones. Ground cover is to be installed on the batters adjacent to the works where existing vegetation and topsoil is stripped. Installation of ground cover should generally follow the figure below.

The weather forecast is to be monitored constantly during the project and where inclement weather is predicted, exposed areas of the site, are to be protected with ground cover accordingly to control sediment and erosion.

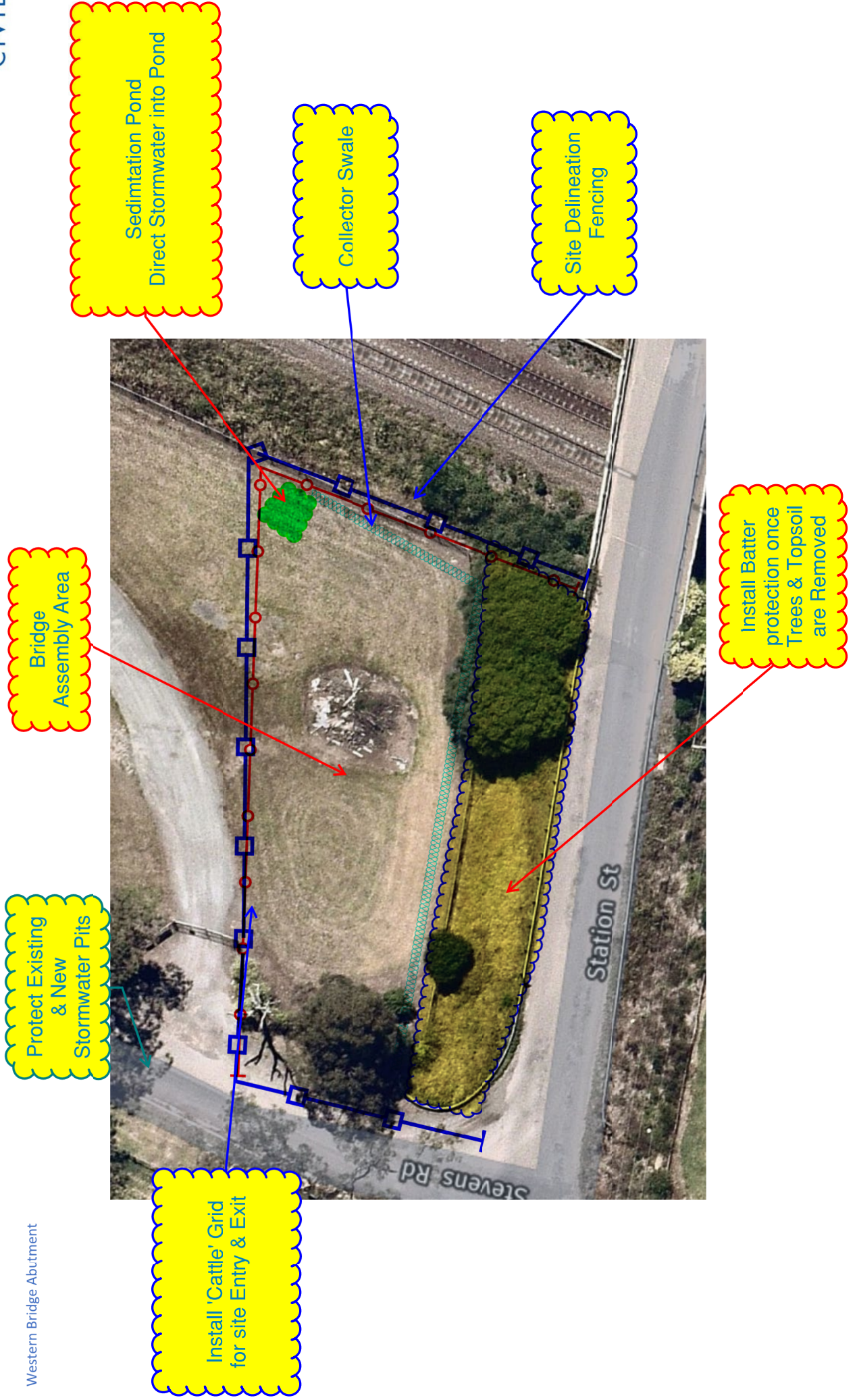
RECP: Sheet Flow



Eastern Bridge Abutment

Install Batter protection
once Trees & Topsoil are
Removed





SECTION 8 – INSURANCE CERTIFICATES

Insurance Type	Policy No.	Cover	Expiry Date	Name of Insurer
Workers Comp	100377001	\$579,644	30 April 2024	iCare
Motor Vehicle	782221846VFT	Market Value	30 June 2023	Zurich Australia
Public Liability	PN1903886	\$20,000,000	30 June 2023	Llyods of London
Contract Works	CONA0058220	\$7,500,000	30 June 2023	Zurich Australia
Professional Indemnity	MI-SY-SPC-01-159725-PI	\$10,000,000	30 June 2023	Liberty
Contractors Pollution	EL0000172498	\$5,000,000	30 June 2023	AIG Australia Ltd

SECTION 9 – CERTIFICATIONS

Austrorads National Prequalification System for Civil (Road and Bridge) Construction Contracts

CERTIFICATE OF PREQUALIFICATION

ASSESSING AUTHORITY: Transport for NSW

ENTITY: Christie Civil Pty Ltd

ABN/ACN: 74 096 455 346 / 096 455 346

ADDRESS Unit 4 / 7-29 Bridge Road Stanmore NSW 2048

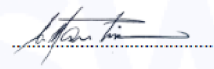
PREQUALIFICATION STATUS: FULL

PREQUALIFICATION PERIOD: 25 May 2021 to 24 May 2024

CATEGORIES: ROAD BRIDGE SPECIALIST
R3 B3

FINANCIAL LEVEL: F10 (\$10M)

AUTHORISED:


Chris Martin
Senior Manager, Policy & Governance
Commercial, Performance & Strategy Branch
Infrastructure & Place Division

DATE: 25 May 2021

CERTIFICATE NUMBER: NSW 2021 - 33

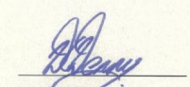
Note: Where a qualitative adjustment is applied and results in an upward adjustment greater than one level, this is noted via an asterisk on the 'F' Level.



The Federal Safety Commissioner
certifies that

Christie Civil Pty. Ltd.

having met the requirements of the
Australian Government building and
construction WHS Accreditation Scheme,
is hereby awarded accreditation from
31 March 2021 until 30 March 2024.


David Denney
Federal Safety Commissioner



Accreditation number: 626