

ORGANISATION DETAILS			
Principal contractor:	Brendan McKenna Earthmoving PTY LTD	Contact number:	0417 710 806
Project manager or supervisor:	Brendan McKenna	Contact number:	0417 710 806
Other contractors (PCBUs):		Contact number:	
Person completing the SWMS:	Brendan McKenna	Contact number:	0417 710 806
Position:	Site Manager	Reviewed by:	Ron Broadhurst
Date prepared:	07/09/2026	Review date:	07/09/2028
PROJECT DETAILS			
What is the scope of the work?	Bridge Installation		
Who else was consulted/involved in preparing this SWMS?	This SWMS has been developed in consultation with Subject Matter Experts. Reviews will be conducted two years, in the event an incident occurs, if there is a change in operational practices and if there is a change in legislation. It will also be reviewed in conjunction with any review of associated procedures and/or training programs. Effectiveness of control measures will be monitored by on site Managers/Supervisors		
What high risk work activities are covered by this SWMS?	Crane and Dogman/Rigger operation. Work safely at heights.		
References: Legislation, Australian Standards, Codes of Practice, MSDS and SOPs.	WHS Act and Regulations 2011 Local and State legislation		
Plant involved in the scope of work:	Cranes, Excavator, Extendable semi-trailer, Heavy ridged truck, All terrain forklift.		
What high risk licence classes will be required to do the work?			

The following notes apply to the risk controls where relevant:

Personal Protective Equipment (PPE): The following PPE will need to be worn by workers at times on this project as directed:

☐ High Vis Garments ☐ Hearing protection ☐ Safety Glasses ☐ Hard Hats ☐ Gloves ☐ Safety Footwear ☐ Other

High Risk Work: i.e. **Crane Dogman/Rigger Operation. Work safely at Heights.**

All High-Risk workers are to be qualified, certified and experienced for the work to be done.

Work safely at Heights workers to have and shown Work safely at Heights identification before starting work at heights.

All lifting equipment to be within inspection date and inspected before and after every use.

All Work safely at Heights equipment to be within inspection date and inspected before use.

Any lifting equipment or work safely at Heights equipment found to worn, damaged or frayed to be replaced immediately.

Identify each task in order	Specify the hazards/risks you have identified	What are the risks to health and safety?	Who is responsible for implementing and monitoring controls?
Present yourself fit for work. Drugs Alcohol Fatigue	Being under the influence of drugs, alcohol or feeling the effects of fatigue or illness can affect your judgement and could lead to serious injury.	Do not operate any machine if you are under the influence of drugs or alcohol which can impair your alertness and co-ordination. If you are unwell or feeling the effects of fatigue speak to your supervisor. An operator on over-the-counter medication needs medical advice on whether or not they can operate the machine. Workers are reminded of their obligation to not place at risk the health and safety of themselves or anyone else in the workplace.	Site Manager or Supervisor.
Loading and unloading of steel girder sections.	Hazard: Moving load • Falling object Risk: • Serious injury, • Injury to others from falling objects	Use of licensed crane operator, dogman and spotters. 30m Exclusion zone around loading and unloading work area. Spotter to ensure no unauthorised entry into exclusion zone. Crane operator, spotter and dogman guiding decks must remain in full view of other operators and in constant communication. UHF# 14 Other employees to remain clear and not approach unless directed to do so. All lifting equipment to be within inspection date and inspected before and after each lift. Load to be controlled by tag line by dogman/rigger only. Disconnection of lifting equipment once girders are in place to be carried out by crane operator and dogman/rigger only	Site Manager or Supervisor. Crane operator. Dogman/Rigger. Spotter.

Working at Heights	Hazard: • Fall from heights. • Falling objects Risk: • Serious injury • Damage to height equipment	Only trained and work safely at heights certified persons to undertake any work classified as working at height. All height equipment to be checked for compliance before each use. A delineated safe zone marked by 2 rows of safety bollards placed down the centre of the bridge at 3m maximum distance during installation of deck. Before commencing work, test anchor point and fixed lanyard length for physical restraint distance from the edge. Visual edge protection put in place to identify 1m from edge. Safety harness with lanyard attached to anchor point must be worn when outside the delineated safety zone. Height safety harness to always have 2m dual fixed length lanyards. Ensure process of connect/reconnect with anchor points is always maintained when working on bridge. Ensure lanyard length is maintained to avoid worker contact with water or edge. 2m. Employees trained in rescue procedure as per rescue procedures for working at heights accreditation only. Discuss possible rescue plan steps each morning at pre-shift meeting and check rescue equipment is properly located and checked. All safety gear to be correctly stored after use. Workers to work in pairs whenever possible. Only essential workers in area of work being done.	Site Manager or Supervisor
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Delivery and unload of bridge components and tools from truck.	Hazard: Struck by mobile plant falling object Risk: Serious injury, Injury to others from falling objects	Use designated unloading and unloading area. Use a spotter within designated area. Spotter to maintain clear and constant communication with relevant workers. Unloading to stop immediately if any unauthorised persons enter unloading area.	Site Manager or Supervisor.
Lift bridge steel girders into position.	Hazard: - Caught between moving loads - Struck by moving load Risk: - Serious injury - Fatality - Injury to others from falling objects	Use licensed crane operator, dogman and spotter. Operators, spotter and dogman guiding girders must remain in full view of other operators and maintain clear constant communication. UHF# 14. Other employees to always remain clear and not approach unless directed. Keep hands clear. Never put fingers and hands between girders and concrete. Steady load from top of girder. Retain clear UHF communication with crane operator and spotter. Disconnection of lifting equipment once girder is in position to be carried out by crane operator and dogman.	Site Manager or Supervisor
Align bridge girders up with final correct position on abutments.	Hazard: - Caught between girder and abutment - Falling from heights - Falling objects - Sharp edges	Follow instructions from crane operator/dogman whilst aligning. Height safety harness, lanyard etc must be worn in boom basket and bank position. Keep hands clear. Never put fingers or hands between girders and concrete. Steady load from top of girder. Retain clear UHF communication with crane operator and spotter.	Site Manager or Supervisor

	Risk: Personal Injuries	Create anchor point at approach for lanyard attachment during alignment process at abutment. Adjustable roofer's lanyard to be used for this task only. Use measuring tools and devices to ensure alignment/positioning is correct. Ensure no materials left under bridge or on abutment before leaving and placement of decks.	
Install centre cross bracing to girders	Hazard: - Slip Trips Falls - Falling objects Risk: - Personal Injuries	Height safety harness, lanyard must be worn at the approach end of bridge. Assess changing site conditions before carrying out task. i.e. Wind Mobile crane and single man cage basket rated for 250kg for bracing install. Only manual lift 1 bracing piece at a time. Only lift components of less than 15kg maximum. Ensure weight of bracing and worker do not exceed 250kg. Complete set of bracing weight is 78kg. Worker weight not to exceed 170kg. Only pack 1 of bracing set into cage basket with worker at a time. Wear tool bag for bolts and nuts/sockets. Always maintain good housekeeping. All PPE must be worn at all times. Ensure no materials left under bridge or flanges of beams before leaving or starting next task.	Site Manager or Supervisor
Install decking to bridge girders	Hazard: - Slewing load - Falling load Risk: - Serious injury - Fatality	Use only certified lifting devices. Control load with lanyard attached to each deck. Always maintain clear communication with crane operator. UHF#14 Load to be controlled between harnessed workers then turned 90deg for placement. Deck only to be craned onto the bridge in the 1200mm width between harnessed works and only when deck is clear rotate to 5m width for placement. After first deck placement install first eye bolt anchor points while still harnessed to bank anchor point. Repeats uninstall and re-install of eye anchor points working out along bridge. Remain harnessed to one anchor point at all times.	Site Manager or Supervisor

		Ensure all anchor points are highly visible. Use only hi-vis painted anchors. Watch step when moving along deck. Wear tool belt for bolts where practical. Always keep bolts in middle of deck. Avoid storage of bolts near edges. Maintain clean deck and housekeeping during process. Note: Results of Test Lift Conducted showing crane safely lifting well under capacity: 	
Connect decking to girders	Hazards: - Slips Trips Falls - Changing site conditions - Fall from heights Risk:	Check site conditions for changes and discuss at pre-shift meeting each morning. Ensure work area is clean and free from obstacles. Wear safety harness when on top of bridge outside delineated safety zone and always maintain at least one point of connection. 2m Fixed Lanyard for this task. Use middle of bridge safety zone to align deck position by means of flexible bollard placement. Fit lanyard anchor points into deck centre of bridge and remain connected until next deck is placed and aligned. Ensure 1 anchor point connection is maintained to release deck lifting devices. Maintain constant UHF communication with crane operator.	Site Manager or Supervisor

	• Serious injury as result of falling • Falling objects	Install lanyard anchor point into new deck and connect second lanyard. Remove first lanyard only after second lanyard is connected. As per work safely at heights process. Repeat this process across bridge for each deck installation. Watch step and use correct manual handling procedure. Always maintain lanyard anchor unless commuting in designated safety zone. Decks to be manoeuvred parallel with bridge between harnessed workers and only turned perpendicular at installation point. Physical placement of delineation safe zone to be installed as and when each deck is installed. Harnessed workers to remain on bridge between placement of each deck. Installation of next anchor point to be installed between each deck lift. Always maintain UHF communication.	
Install kerbing to bridge decking	Hazard: Slips Trips Falls Fall from height Risk: • Serious injury • Falling objects	Ensure area is clean and free from obstacles. Wear safety harness when outside of safety zone and always maintain at least one connection point. Place kerbing on bridge as close to final position as possible. Ensure slinging is through water scuppers only. Use lever bar to align kerb. Do not manually lift kerb. Keep tools and materials clear of edge and central to workers and a safe distance from the edge. Watch step and use correct manual handling procedure.	Site Manager or Supervisor
Apply bitumen tape to deck joints	Hazard: Slips Trips Falls Manual Handling Risk: • Personal injury • Fall from height • Muscular strain	Wear safety harness when outside of safety zone and always maintain at least one connection point. Ensure area is clean and free of obstacles. Apply bitumen tape using correct manual handling procedures.	Site Manager or Supervisor



This SWMS has been developed in consultation and has been read, understood, and signed by all workers undertaking the scope of works:		
Print Names:	Signatures:	Dates: