FORTEC

Project Number 67.72.0617
Construction Methodology Plan

for

D&C Murrays Bridge Replacement

Document Id: CMP-67720617, Revision: 01

Engineered better.

CONTENTS

DOCUMENT REVISION SUMMARY

Rev No.	Rev Date	Revision Description	Prep by	Check by	Approved by
0	20.05.24	Original Issue	Annamalai R	Harsha A	Justin H
1	18.10.24	Revised with Piling, Girder Casting, Reinstate Fire Trail	Annamalai R	Harsha A	Justin H

1 INTRODUCTION

The works associated with the D&C Murrays Bridge Replacement will be approached using a combination of experience and work methods. The following Work Method Statement (WMS) outlines specific construction methods and sequences related to the concept drawings and specifications issued by Shoalhaven City Council during the tender phase, approved design drawing.

Fortec's approach to construction method and logistics are:

- Reduce the hazards associated with the construction by mitigation processes and continuous improvement;
- Have the correct people and plans in place, as well as a daily forum where actions can be communicated effectively;
- Be in accordance with relevant Australian Standards, Fortec HSECQ Management System requirements and Client company policies;
- Planning of work in advance and providing detailed briefings to all team members;
- Provision of adequate high level engineering, supervision and maintenance of a well-coordinated site;
- Programming construction to avoid access issues and congestion at the various work fronts; and
- Establish a project delivery team of experienced, whenever possible local, Fortec and subcontractors for delivery.

2 PROJECT OBJECTIVES

The objectives of this plan are to:

- Provide a Customer value proposition to meet the Client's expectation in terms of quality of repair, specified finish, fitness for use and design life;
- Ensure a coordinated process in the interfacing of all parties involved in the project;
- Meet the project expectation in terms of environmental issues;
- Ensure a safe and healthy work site for all project personnel;
- Have a project outcome that satisfies all stakeholders.

3 SCOPE AND DESCRIPTION OF WORK

3.1 Scope

The works consist of D&C Murrays Bridge Replacement as per the specification identified in the client RFQ documents.

4 PROJECT LOCATION

The Project Site is located

- Murrays Bridge on Murrays Rd, Conjola

Murrays Bridge - Existing View

5 Construction METHODOLOGY

5.1 METHODOLOGY INTRODUCTION

The following outlines our method to successfully complete the project delivery whilst ensuring a safe and healthy work site for all project personnel.

Detailed Work Method Statements, Process control forms and associated ITPs/PCFs for each area of the works will be developed for approval prior to commencing any site works.

5.2 GENERAL METHODOLOGY

Upon award, Fortec will initially undertake design & project planning out of its NSW Office, with the Project Engineer/Manager involved in the project programming and procurement.

The Project Engineer/Manager will immediately review all project requirements to re-affirm the list of project deliverables and assist with engaging the respective subcontractors in the coordination of works.

The Fortec team will meet weekly to generate the ongoing construction schedule updates.

Detailed below (Item 13) is the proposed construction methodology.

5.3 AWARD PHASE

Following contract award, detailed planning, premobilisation and deliverables will include but will not be limited to:

- Structural Design and Documentation – Produce final design on the agreed concept design including 85% & IFC drawings allowing time for Shoalhaven City Council to comment at each stage, specifications.
- Project Quality Plan developed outlining lines of communication, ITPs, PCFs and specific project operating procedures.
- All significant ITPs/PCFs will describe the activity and reference specification standards and references, Hold points and witness points, Testing/Inspection requirements.
- Safe Work Procedure or Safe Work Method Statements activities as listed under of the tender specification.
- Project Management Plans with regard to project specific requirements listed under of the tender specification.
- Provide Insurances and all other project documentation requirements under the contract; and
- Undertake internal Project Start Up and Pre-Planning Meetings as per the Company's HSECQ procedures.

Upon approval of deliverables for the project by the client & required permits, Fortec will mobilise resources and subcontractors to ensure work can commence within times mutually agreed within the tender program for work.

5.4 DETAILED DESIGN & CONSTRCUTION METHODLOGY

- Preliminary site visit if required.
- Prepare concept design and submit for approval with council.
- 85% Detailed design and approval with council.
- Final (100%) Detailed Design
- Issue for Construction (IFC)
- Respond to Council comments at three design stages (Concept, 85% and 100%)
- 3rd party review of design

5.5 OFF SITE PRELIMINARY WORKS

- Structural Design and Documentation
- Develop Site Safety, Quality and Environmental plans.
- Develop any project specific Management Plans (e.g. traffic, environmental, communication, etc.).
- Develop Construction Programme including long lead items and shop drawing submissions.
- Develop ITPs and PCFs.
- Allocate plant and equipment to the project and conduct servicing and inspections.
- Allocate Fortec facilities to the project, conduct servicing and inspections.
- Staff and employee inductions/training/clearances required for the project.
- Mobilise plant and equipment to site; and
- Mobilise site staff and employees to site.

5.6 ON SITE

- Undertake Site Inductions
- Establish site facilities, offices, lay downs, storage areas and connect services to facilities.

- Establish site muster points.
- Establish and carry out traffic management as required.
- All project PPE and safety and environment measures that have been collated and packed received by site upon confirmation and acceptance of the Proposed Construction Methodology, ITPs, PCFs, Health and Safety, Environmental and Project Quality Plans and submittals.

5.7 WORK PERMIT SYSTEMS

Fortec will work under the Client's Work Permit System which is in accordance with the HSECQ Management Plan.

5.8 AS BUILT/AS REPAIRED DOCUMENTATION

As built/as repaired and quality records will be generated progressively during works with completion of a Project Completion Report (PCR) comprising, Conformance and Non-Conformance paperwork, ITPs, PCFs and checklists for works

All test results, including material certificates, reports, measurements and observations.

As built/as repaired drawings will be prepared progressively and submitted to the Client.

The above data and drawings will form part of the project completion documentation as per Scope of Works.

6 WORK METHODLOGIES

The general construction methodology for works is as follows upon approval of contract submittals and deliverables:

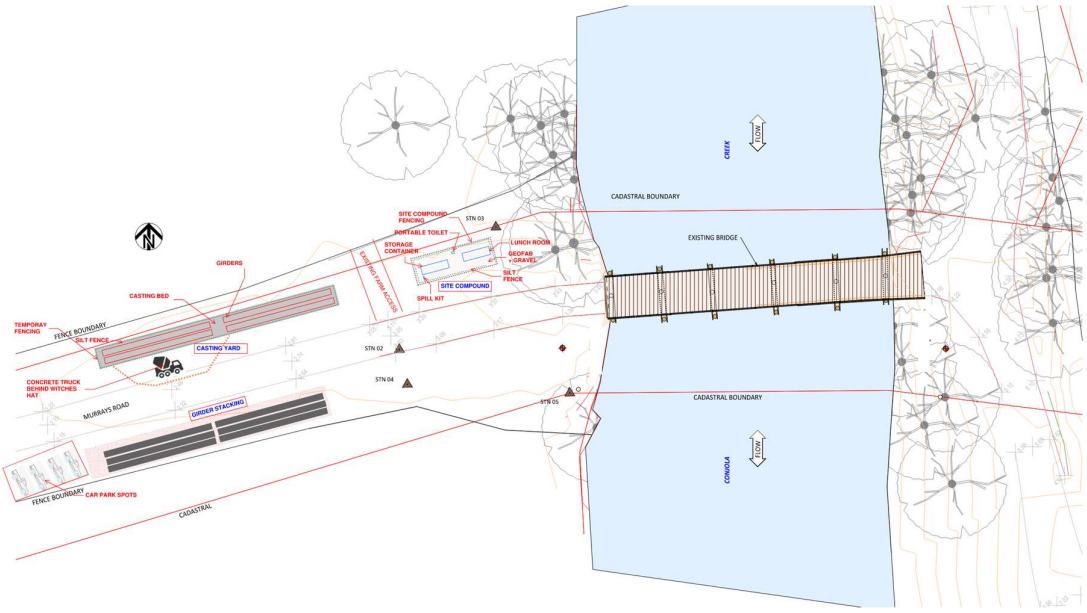
6.1 SITE CLEARING / SITE UP

All personnel entering the site shall have received a site safety induction and have attended a job toolbox talk.

Access to site shall be via approved access points determined by the traffic management plan

A Dial Before You Dig assessment shall be requested by the Project Manager relating to the area where Site Clearance and topsoil stripping is to be carried out. The Project Manager will review documentation for details of known services and will ensure that the required protections are in place prior commencement of activity.

We may whipper snipper lay down areas to prevent any bush fires or bites from snakes or spiders hidden.



Plan View of Murrays Bridge Site Setup

6.2 TRAFFIC MANAGEMENT

The Traffic Guidance Scheme (TGS) will be prepared and submitted for council approval to address any changes to the existing traffic flow. Since the new bridge will be built adjacent to the current bridge, we expect minimal disruption to traffic; however, certain activities, such as piling, girder installation, and road work, may require partial or full road closures. Fortec's construction plan includes reinstating the fire trail to maintain access for property users during work on the eastern side. Temporary road signage will be installed, and residents will be notified in advance of any partial or full road closures. For additional details on traffic management throughout construction, please refer to the Traffic Management Plan (TMP).

6.3 TREE REMOVAL

An arborist has reviewed the trees that need to be removed to facilitate the works. A total of 13 trees will be removed for the main construction, along with an additional 2 trees along the fire trail to allow for the movement of construction equipment to the eastern side. A summary report from the arborist is included as an appendix in the Construction Environmental Management Plan (CEMP).

Tree Removal Works

6.4 PILING

The piling methodology has been modified from the tender stage based on findings from additional geotechnical investigations. The revised approach involves driving a 711mm diameter Circular Hollow Section (CHS) with a 20mm welded shoe at the bottom. The CHS sections will be driven to the lengths specified in the design drawings. A 100-ton crane, hydraulic hammer, and a 13-ton excavator on a barge will be used for the pile driving. The crane will lift each pile section into a survey-marked position, where the excavator, equipped with a grab, will hold it in place. The crane will then unhook and lift the hydraulic hammer, positioning it on the pile. Once positioned, the crane will release the load, and the hammer will begin driving the pile using a hydraulic power pack. After reaching the designed depth, the hammer will be removed, and the next pile will be driven using the same process. Upon completion of pile driving, an excavator with an auger will remove soil from inside each CHS section to the designated depth. A reinforcement cage will then be installed, followed by concrete placement. Below are the staging details of piling works.

Abutment A (Western Side)

- 100T crane will be positioned close to the Abutment A. One leg of the crane will be on the existing road and water barriers will be placed to isolate the work zone.

Pier 1

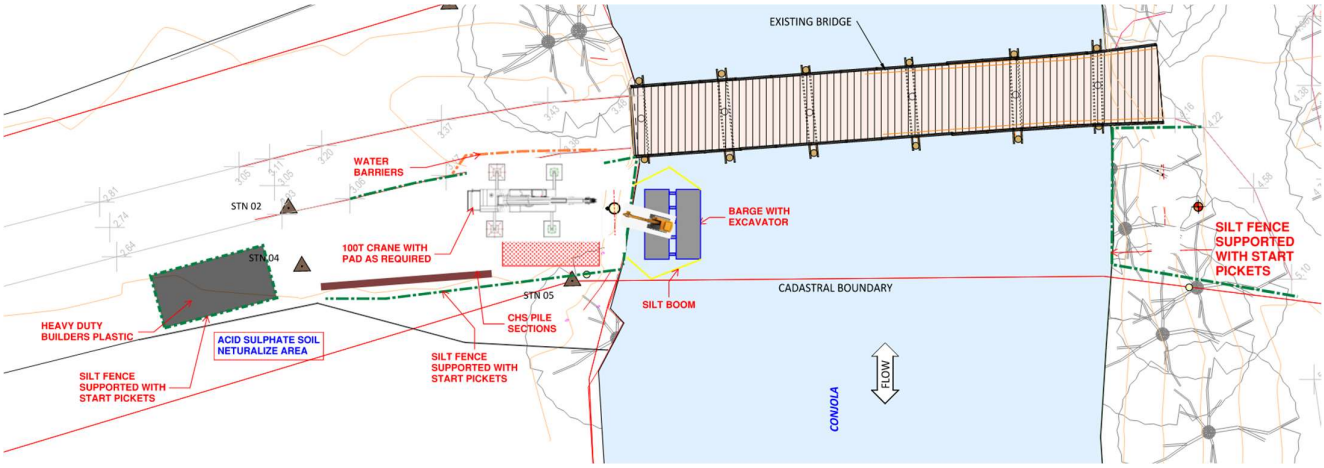
- 100T crane will be positioned close to the Abutment A. One leg of the crane will be on the existing road and water barriers will be placed to isolate the work zone.

Abutment B (Easter Side)

- 100T crane will be positioned close to the Abutment B. One leg of the crane will be on the existing road and water barriers will be placed to isolate the work zone.

Pier 2

- 100T crane will be positioned close to the Abutment B. One leg of the crane will be on the existing road and water barriers will be placed to isolate the work zone.



Equipment Setup for Piling Works

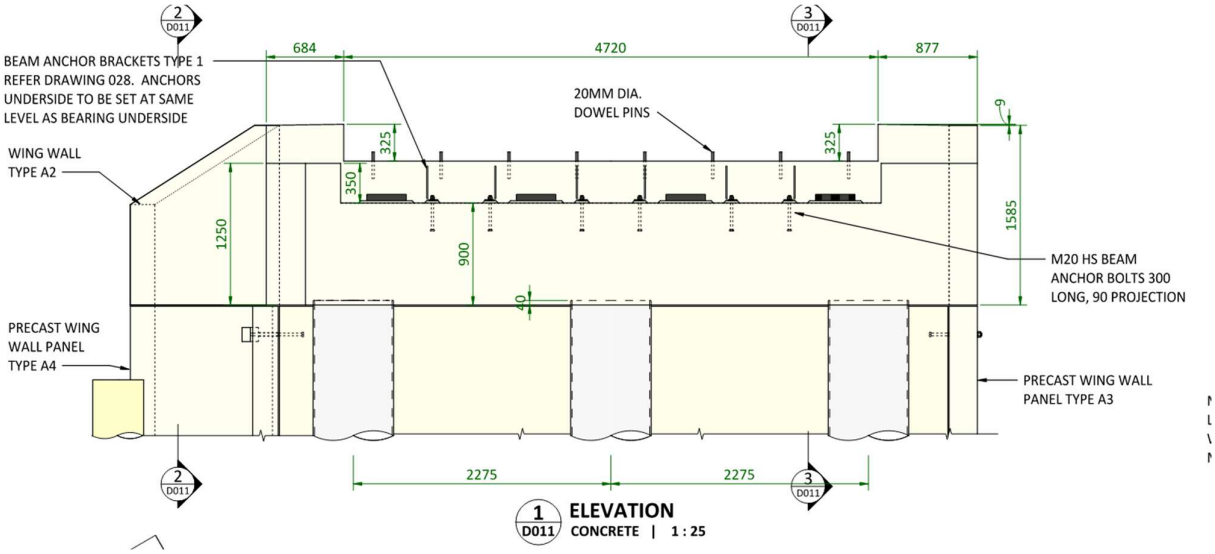
6.5 EXCAVATION

Excavate at the abutment to reach the specified design levels, allowing for excavation up to 1 meter behind the abutment. We anticipate that all excavated material will be classified as VENAM; however, the geotechnical report indicates the potential presence of acid sulfate. The excavated material will be tested and classified accordingly. Should acid sulfate be detected, the excavated spoil will be stockpiled in a designated area, where lime will be applied at the recommended rate to neutralize it before disposal.

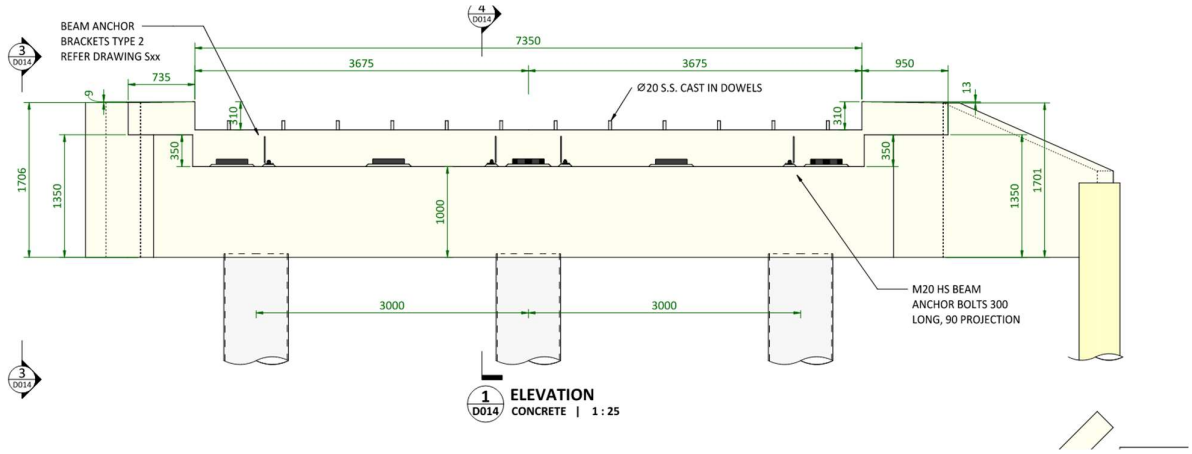
View of Excavation Works at Chesworths Bridge by Fortec for Dungog Shire Council

6.6 ABUTMENT, HEADSTOCK & WINGWALL

- The excavated surface will be levelled and the blinding concrete for a thickness of 50-75 mm is placed on both the abutment.
- Reinforcement from the pile will embed into the abutment.
- FRP abutment,
- Precast the wingwall and wall panel. Precast elements will be lifted using 40T crane.
- A combination of timber & steel formwork system will be used.
- The pier headstocks will be precast and installed using a 250T crane.
- All concrete works carried out as per TfNSW B80 specification.



Proposed View of Abutment & Wingwall works at Abutment – A



Proposed View of Abutment & Wingwall works at Abutment – B

6.7 BACK FILL

- Place vertical drain (Terradrain) and horizontal drain.
- Place DGB20 in layers of 300mm and compact as per design requirements.
- Testing for compaction will be done for every layer on approaches.

6.8 SCOUR PROTECTION

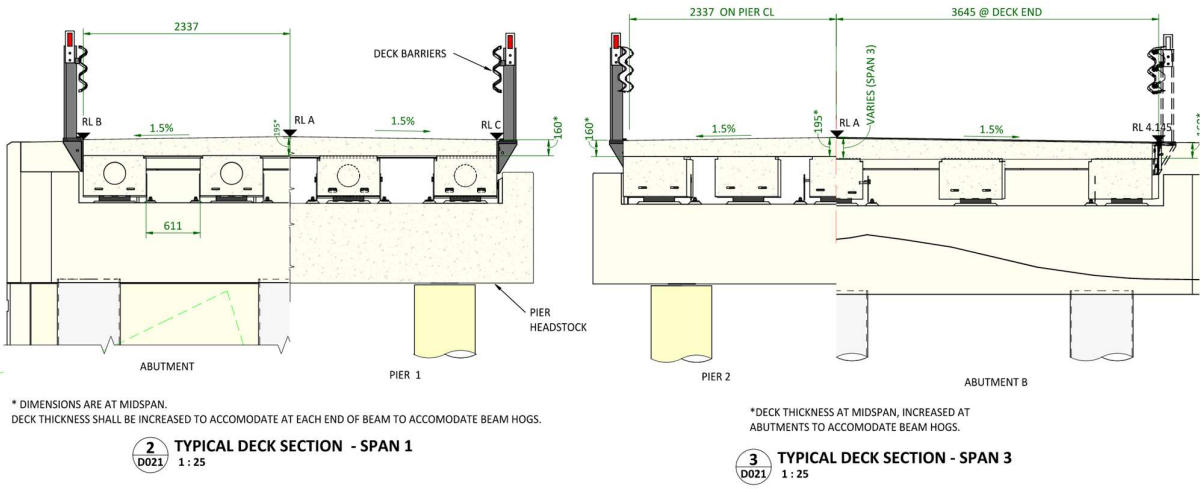
- D500 rock will be placed in front of the abutment and wingwall as per the design.

6.9 GIRDERS

- PSC girders 710mm wide x 450mm deep x 13.45 mts long - 8 nos for Span 1 & 2.
- PSC girders 710 mm wide x 450mm deep x 9.5 mts long – 5 nos for Span 3. Girders of span 3 will be skewed to increase the width of the Abutments to achieve required turning radius.
- 100T crane will be used to install the girders. Crane will be positioned on the eastern side while installing the girders from Pier 2 & Abutment B Span.

View of Girder Installation at Reeves Bridge by Fortec for Dungog Shire Council

View of Girder Installation at Bridge 5023B by Fortec for MRWA

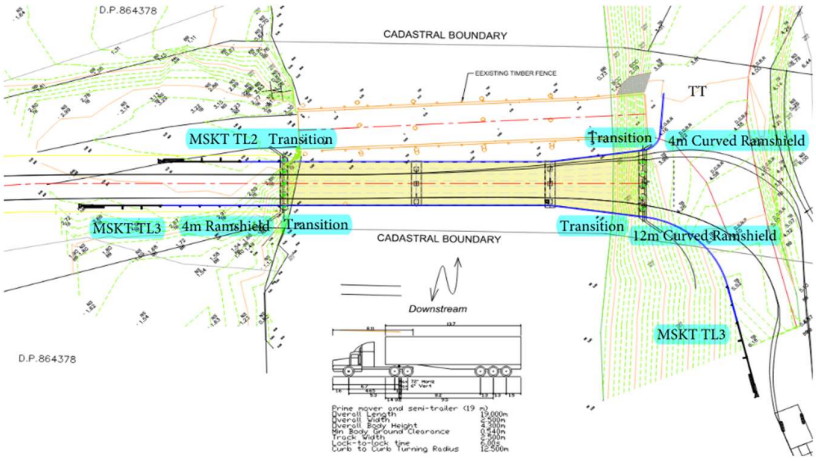


Proposed View of Deck Arrangement

6.10 TRAFFIC BARRIERS

- Install low performance traffic barriers to the length of the bridge. The barriers post will be bolted to the deck unit using chemical anchor.
- Beyond the bridge the barrier posts will be driven into the ground.
- A transition section will be used to connect the section between the bridge and the road.

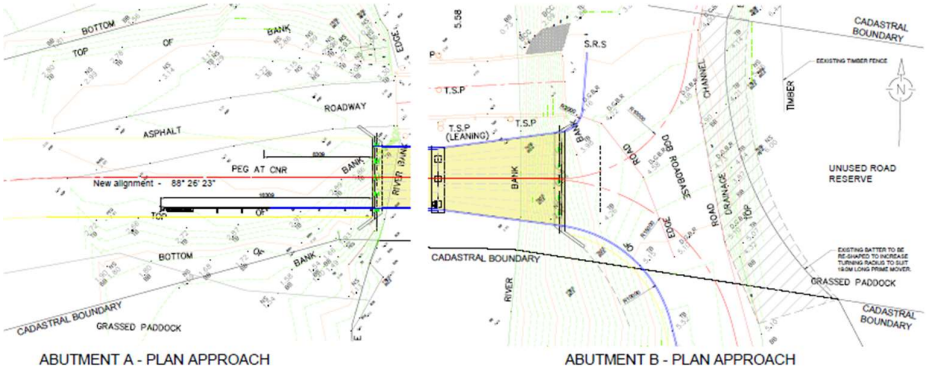
View of Barriers at Watagn Bridge by Fortec for Cessnock City Council



View of Proposed Traffic Barrier Layout

6.11 ROAD WORKS

- Excavate to designed levels on either side of the bridge.
- Compact base & subbase as per design.
- Spray 14/7 primer seal on either side of the bridge (50Lmx5m)
- Fortec proposes to cut into the existing space on the eastern side and bench it back as detailed in the concept drawing to achieve turning radius for 19m vehicle.

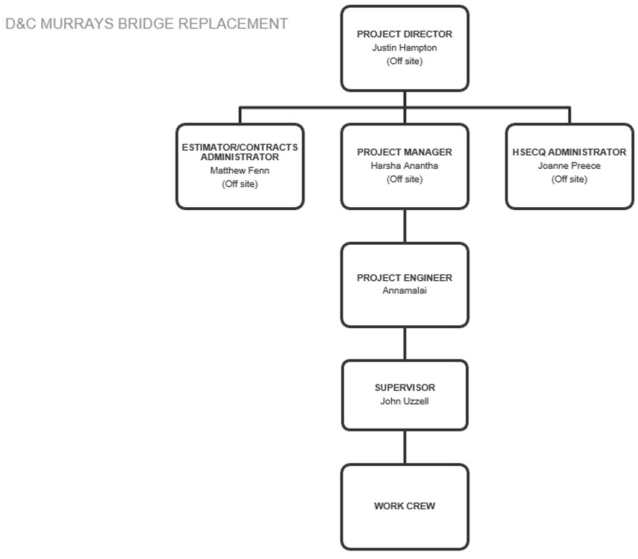


Proposed View of Road Work on Abutment Approaches

7 TEAM ORGANISATION CHART

7.1 TEAM AND ORGANISATION INTERFACE

The project office-based team will coordinate with site-based Project Engineer/Manager for the works, please refer to current organisation chart incorporated below:



7.2 PROJECT TEAM

Our project team is made up of:

Position	Name
Project Director – Off site	Justin Hampton
Project Manager – Off site	Harshavardhana Anantha
Project Engineer – Off site	Annamalai Ramanathan
Supervisor	John Uzzell
Contract Admin/Procurement – Off site	Matthew Fenn
HSECQ – Off site	Joanne Preece

Resumes are attached for your review of personnel capabilities.

7.3 LABOUR SOURCING

Fortec currently employs its own local direct workforce to undertake the following activities:

- Concreting
- Steel fixing
- Formwork
- Riggers

Fortec will provide its own workforce support for above trades and will assist with, materials movement to expedite site installation works. Should the need arise; Fortec will source local labour well in advance of scheduled work activities.

Fortec will subcontract the following activities:

- Piling
- Earthworks
- Crane
- Concrete Pumping
- Survey Works
- Spray Seal

8 GENERAL ADMINISTRATION

General project administration activities will be coordinated via the NSW Office and site-based Project Manager.

The project team will be supported by Fortec Senior Management and assist with compilation of project specific plan and technical support.

Site HSECQ support from our HSECQ Department will regularly visit site as required during package works.

9 SUBCONTRACT ADMINISTRATION

The NSW Based Contract Admin will assist with the compilation and initial project procurement activities with the Project Engineer/Manager.

The Project Supervisor will then co-ordinate and relay daily administrative tasks on site and coordination of construction sequencing with proposed subcontractors for works.

Fortec have a dedicated Project Manager during the works to co-ordinate with the Project Supervisor and meet with client on a regularly scheduled basis.

It is our intention to have a full-time supervisor on site to complete daily reporting requirement.

10 OFFICE LOCATIONS AND DIVISION OF THE WORK

10.1 Division OFFICE

The following duties will be carried out predominately from the NSW head office:

- Execution of contract documents
- Provision of bank guarantees/insurance bonds security
- Finalisation of all management plans including ITPs
- Project delivery team and tender handover meeting to project management team
- Finalisation of subcontracts
- Finalisation and provision of construction program
- Procurement consolidation for materials, plant and equipment, including preparation prior to commencement of works.
- Inspection and Coordination of off-site Manufacture items
- Finalisation of any project As Built, Project Completion Report, Project Warranties, Commissioning and other requirements.

10.2 PROJECT SITE OFFICE

The following duties will be carried out predominately from the project site office on site:

- Coordinate the requisition, mobilisation, demobilisation and maintenance of vehicles and equipment.
- Coordinate the requisition, mobilisation, demobilisation of materials, plant and equipment required for the works.
- Daily program and coordination activities of works
- Coordination and access with client for works

10.3 SITE ESTABLISHMENT

The following duties will be carried out predominately on site:

- Site Establishment including
  - Office set up
  - Ablution
  - Lunchroom set up

  - Storage compound
  - Power supply
  - Lay down area securely fenced off
- Quality control
- Project reporting
- Traffic management
- Environmental management

11 DESIGN

- Preliminary site visit
- Prepare concept design and submit for approval with council.
- 85% Detailed design and approval with council
- Final (100%) Detailed Design
- Issue for Construction (IFC)
- Respond to Council comments at three design stages (85% and 100%)
- 3rd party review of design

12 PROGRESS MONITORING

12.1 CONTRACT PROGRAMME AND PROGRESS MONITORING

In accordance with the indicative Tender program provided in the tender documents, a detailed programme will be developed and prepared and work methodologies adopted that will ensure all the required project milestones are achieved.

12.2 PROGRESS MONITORING

Fortec will update and program works at two weekly intervals to reflect current project progress and amend as required for any changes to scope for works under contract.

12.3 CONTRACT PROGRAMME

The tender program and narrative will be developed into the mobilisation schedule and contract programme identifying all activities of the work breakdown structure, critical path and key dates schedule.

13 REPORTING

13.1 REPORTING PROCEDURES

Fortec will submit a monthly report by the cut-off date for the reporting month (last Friday of calendar month) or as agreed with the Client.

14 HSEQ DOCUMENTS AND PLANS

The following documentation will be freely available to all personnel on site:

- Applicable Legislation and Australian Standards
- MSDS

- Management Plans
- Safe Work Method Statements
- Safe Work Procedures
- Work Method Statements
- Process Control Forms
- Inspection and Test Plans
- Contract Drawings
- Project Specifications

15 INDUCTION & SITE-SPECIFIC TRAINING

All members of the project delivery team will undertake Client required inductions and training and also undertake Fortec Project Specific Inductions.

All site personnel will receive a briefing on relevant work method statements and the associated risk assessments. These briefings will be recorded in accordance with Fortec HSEQ procedures and will be given by a member of the site management team. Any and all inductions requested or required by The Client will be carried out in a timely manner.

16 TRAINING

Training will be conducted and recorded in accordance with Legislation, Client and Fortec requirements. Fortec shall carry out a training need analysis and training project specific training plan based on its activities in order to meet project, legislation and its own training requirements. This may include, working at heights, confined space, etc.

17 ENVIRONMENT

The protection of the environment during the works will be governed by Management System requirements, procedures, and requirements of any statue, by-law, and standards related to environmental protection. The following environmental impacts shall be considered:

- Waste Management
- Dust Management
- Noise and Vibration
- Hazardous Substances & Spill Management

We have made no allowance for any hazardous material management.

18 HAZARDS AND CONTROL

Project specific risks shall be identified on the Project Risk Assessment.

Fortec have developed a variety of Safe Work Method Statements (SWMS) including environmental impacts, for tasks performed, which will be made site specific by including project specific hazards.

19 EXISTING SERVICES

The Client will identify all existing services to Fortec.

20 EMERGENCY RESPONSE REQUIREMENTS

Emergency response requirements will be in line with Wollondilly Shire procedures and guidelines. All Fortec light vehicles will be fitted with First Aid kits while the Fortec site office and container will also contain First Aid kits.

Work practices that will require specialist emergency equipment, and that are being undertaken by Fortec for example confined spaces entry or hot works.

Any further emergency response requirements identified during Pre-Start or SWMS completion will be addressed before commencing the task. Fortec will follow all instruction given by Wollondilly Shire in relation to Emergency Response and will adhere to the site-specific procedure.

21 PERSONAL PROTECTIVE EQUIPMENT

Fortec will ensure that, as a minimum, the following PPE is provided and worn whilst on site.

- Foot protection (steel capped, ankle high, fully laced boots) complying with AS2210
- Eye protection (clear safety glasses when working inside or in the dark) complying with AS1337
- Prescription safety glasses as per AS1337 as required.
- Protective clothing (long trousers, long sleeved shirt, high visibility shirt or vest) sleeves rolled down.
- Hearing protection were sign posted and determined by risk assessment.
- Safety Helmet complying with AS1801 (No caps to be worn under hard hats)
- Gloves were sign posted and determined by risk assessment.
- Other: respirators, sun protection, monogoggles, face shield, air fed blast helmet etc.

A risk assessment will be carried out to determine appropriate PPE for all works.

22 RECORDS

As Built/as repaired records (red-lined) will be compiled by the Fortec surveyor and retained for reference as the works proceed.

Quality Assurance records will be compiled and retained for reference as the works proceed. Any documentation required by the Client will be produced as soon as practicable.

The Manufacturers Data Report (MDR) will be completed and handed over to the client. A draft index of the MDR will be submitted to The Client for approval and may include items such as, but not limited to:

- PCF’s and ITP’s
- Material and Equipment Test Certificates
- Non-conformance reports and Punch lists
- Concrete Test Certificates (if not already issued directly to The Client)
- Compliance Certificates
- Coating testing requirements
- As Repaired Drawings
- Photographs of the works
- Maintenance manuals

23 PROCUREMENT, EXPEDITING AND MATERIAL CONTROL

Upon project award, Fortec will complete a project start-up/pre-planning meeting and list the specific elements for procurement for works including lists of internal plant and equipment and small tools required for the project. This in turn will be forwarded to the Fortec Stores Manager who, along with the proposed supervisor for works, will pre pack equipment and materials within the Fortec facility prior to mobilisation to site.

All materials will be provided in accordance with the various specifications and appropriate Australian Standard.

Elements and items will include:

- PSC Girders
- Precast Abutments
- Precast Wall panels
- Barriers

24 PLANT & EQUIPMENT

24.1 MAJOR PLANT & EQUIPMENT LIST

Plant Type	No. Required
Generator 12 kva	3
Site office, Lunch room & Portable Toilet	1/Site
Telehandler	1
60T crane	1
Loader 960	1
12T Excavator	1
Drilling Rig	1
Concrete Pump	1

25 DOCUMENT AND DATA CONTROL

25.1 PROJECT MANAGEMENT PLANS DISTRIBUTION

The HSECQ Department shall distribute this plan and other relevant Project Management Plans (including detailed risk assessment) and Submittals to all management, engineering and supervisory staff involved with the project including all Subcontractors / Suppliers who are involved with any quality aspects of the works.

25.2 PROJECT MANAGEMENT PLANS REVIEW

The Project Director and Project Manager shall review Plans and review the project requirements as required.

25.3 DOCUMENT CONTROL

A controlled copy of the Project Quality Plan will be distributed. Owners of controlled copies will automatically be issued with updated revisions as they occur. The owners are directly responsible for destroying previous revisions.

Uncontrolled copies will be distributed for “Information Only” at the discretion of the Project Director. Uncontrolled copies will not automatically be updated to the latest revision.

APPENDIX 1: PILING STAGING

1 D0 **SITE PLAN** 1 : 150

NOT FOR CONSTRUCTION

Drawing scales true at A1

Issue	Description	Name	Initial	Date

Design not to be amended without authorisation by Certifier

FORTEC

FORTEC AUSTRALIA
Unit 12/55-57 Newton Road
WEATHERILL PARK NSW 2450

SITE LOCATION

BRIDGE ON MURRAYS ROAD
NORTH OF FISHERMANS
WHARF

Shoalhaven City Council

MURRAYS BRIDGE OVER CONJOLA CREEK

SITE COMPOUND, CASTING & STACKING YARD - LAYOUT WITH ENVIRONMENTAL CONTROLS

Project
Job Ref.

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1 D0 **SITE PLAN**
1 : 150

GENERAL NOTES

DIMENSIONS IN MILLIMETERS.
CO-ORDINATES ARE TO MGA.
REDUCED LEVELS TO AHD (m).

NOT FOR CONSTRUCTION

Drawing scales true at A1

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FORTEC

FORTEC AUSTRALIA
Unit 12/55-57 Newton Road
WEATHERILL PARK NSW 2450

SITE LOCATION

BRIDGE ON MURRAYS ROAD NORTH OF FISHERMANS WHARF

Shoalhaven City Council

MURRAYS BRIDGE OVER CONJOLA CREEK

PROTECTION FOR EXISTING BRIDGE

Project Job Ref.

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Rev

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1 SITE PLAN
D0 1 : 150

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WEATHERILL PARK NSW 2450

SITE LOCATION
BRIDGE ON MURRAYS ROAD NORTH OF FISHERMANS WHARF

Shoalhaven City Council

MURRAYS BRIDGE OVER CONJOLA CREEK

ENVIRONMENTAL CONTROLS FOR ABUTMENT WORKS

Project Job Ref.

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CREEK
FLOW
CADASTRAL BOUNDARY
STN 03
EXISTING BRIDGE
FENCE BOUNDARY
WATER BARRIERS
STN 02
100T CRANE WITH PAD AS REQUIRED
STN 04
BARGE WITH EXCAVATOR
WORK BOAT
SILT FENCE SUPPORTED WITH START PICKETS
CADASTRAL BOUNDARY
STN 05
MURRAYS ROAD
HEAVY DUTY BUILDERS PLASTIC
ACID SULPHATE SOIL NETURALIZE AREA
CHS PILE SECTIONS
SILT FENCE SUPPORTED WITH START PICKETS
SILT FENCE SUPPORTED WITH START PICKETS
FLOW
CONJOLA
FENCE BOUNDARY
CADASTRAL

1 D0 **SITE PLAN**
1 : 150

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SITE LOCATION
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Shoalhaven City Council

MURRAYS BRIDGE OVER CONJOLA CREEK

ENVIRONMENTAL CONTROLS FOR ABUTMENT WORKS

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Rev

Designed By:

1 D0 **SITE PLAN**
1 : 150

GENERAL NOTES

DIMENSIONS IN MILLIMETERS.
CO-ORDINATES ARE TO MGA.
REDUCED LEVELS TO AHD (m).

NOT FOR CONSTRUCTION

Drawing scales true at A1

Issue	Description	Name	Initial	Date
Design not to be amended without authorisation by Certifier				

FORTEC
FORTEC AUSTRALIA
Unit 12/55-57 Newton Road
WEATHERILL PARK NSW 2450

SITE LOCATION
BRIDGE ON MURRAYS ROAD NORTH OF FISHERMANS WHARF

Shoalhaven City Council

MURRAYS BRIDGE OVER CONJOLA CREEK

ENVIRONMENTAL CONTROLS FOR ABUTMENT WORKS

Project Job Ref.

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Rev

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