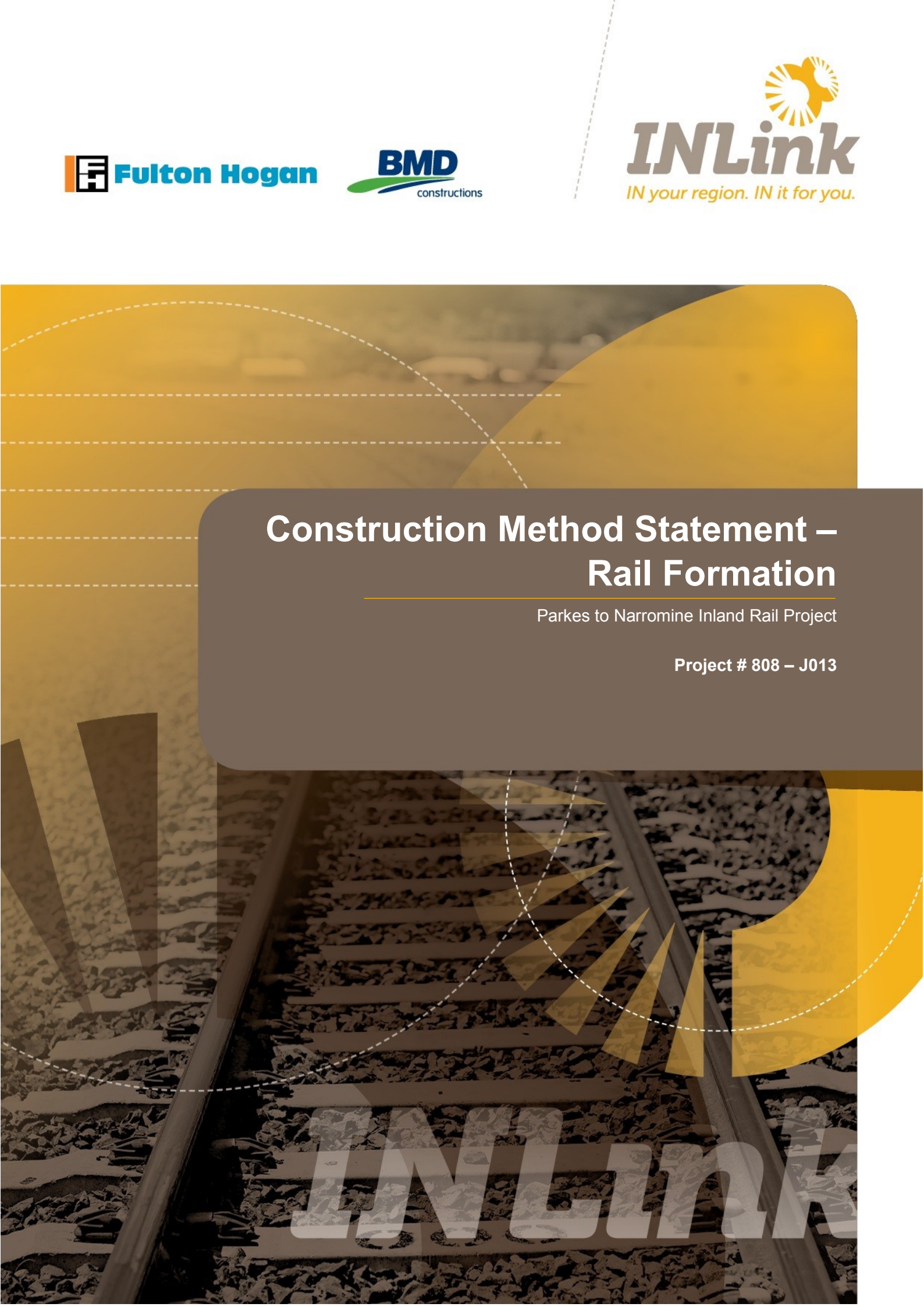


Construction Method Statement – Rail Formation

Parkes to Narromine Inland Rail Project

Project # 808 – J013



INLink

Job No.: 808 - J013

Principal: Australian Rail Track Corporation, (ARTC)

Authorised by: Shawn Davis  Date: 28/11/2018

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Parks to Narromine Inland Rail
Project # 808 – J013

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Attachments

Attachment A – Subgrade Testing Diagrams

Attachment B – Not Used

1 Introduction

The purpose of this document is to define the processes and accountabilities for Rail Formation on the Parkes to Narromine Inland Rail Project. INLink must ensure that all construction activities involved in Rail Formation are carried out in a safe and effective manner; in accordance with the relevant specifications and project requirements.

The P2N section of the inland rail is a brownfield site extending from 449200km to 547550km on the Goobang Junction to Narromine line. The rail works will consist of 98.35km of upgraded track and associated facilities. Most of the works conducted are located in the existing rail corridor between Parkes and Narromine, however a new greenfield connection to the Broken Hill line is also to be constructed. The key features of the project involve:

- Providing a 5.3km long rail greenfield connection between the Inland Rail and the Broken Hill line.
- Upgrading the track, track formation, culverts and level crossings within the existing rail corridor.
- Realigning the track, where required, within the existing rail corridor.
- Providing three new crossing loops, at Nanardine, Peak Hill and Tomingley



2 References

2.1 Construction Procedures (CP's)

The following Construction Procedures (CP's) for Rail Formation form part of this document.

Document Name	CP ID	REV
Removal and Installation of RCBC	1	A
Removal and Installation of RCP	4	A
Identification and Relocation of Utilities	7	A
Clearing and Grubbing	12	A
Rail Earthworks	14	A
Trackside Signage Removal/Replacement	15	A
Track Resurfacing and Geometry	16	A
Access Road Maintenance	17	A
Track Demolition	21	A

2.2 Inspection Test Plans (ITP's)

The following ITP's have been used to form part of this document.

Document Name	ITP ID	REV
Clearing and Grubbing	2	A
Topsoil Stripping	3	A
Ground Surface Treatment	4	A
Excavation	5	A
Embankments	6	A
Reinforced Concrete Pipes	12	A
Box Culverts	13	A
Concrete Works	18	A
Backfill to Structures	19	A
Landscaping Works	24	A
Relocation of Existing Services	25	A
Conduits and Pits	26	A
Fencing	34	A
Structural Fill	35	A
Capping Layer	36	A

2.3 Specifications

The following Specifications have been used to form part of this document.

Document Name	ID	REV
Environmental Protection - RMS	G36	Ed4/R5
Clearing and Grubbing - RMS	G40	Ed2/R2
Earthworks Construction - ARTC-ETC	08-04	1.0
Earthworks - RMS	R44	Ed5/R0
Earthworks Materials - ARTC-ETC	08-03	1.1
Stormwater Drainage - RMS	R11	Ed5/R3
Precast Reinforced Concrete Box Culverts - RMS	R16	Ed3/R1
Concrete Work for Bridges - RMS	B80	Ed6/R8
Excavation and Backfill for Bridgeworks - RMS	B30	Ed4/R1
Landscape Planting - RMS	R179	Ed1/R2
Utility Adjustment - RMS	G7	Ed1/R2
Design and Construction of Underground Cableways - RMS	R155	Ed1/R3
Fencing - RMS	R201	Ed5/R0
Earthworks, Formation and Capping Material - ARTC-ETM	08-01	1.1

2.4 Management Plans

The following Management Plans have been used to form part of this document

Document Name	ID	REV
Utility Management Plan	-	A
Utility Identification and Protection Plan	-	C
Construction Environmental Management Plan	-	B
Safety Management Plan	-	B
Site Establishment Management Plan	-	D
APA Management Plan	-	A

3 Responsibilities

3.1 Project Manager

- Work with the Project Engineers and Site Engineers, Superintendent and Foremen to identify the correct level of resources required.

3.2 Project Engineer / Site Engineer

- Responsible for the delivery of specific elements of works for the Construction Period of the Project.
- Work with Foremen to plan and coordinate medium and short-term activities, and ensure that resources (plant, labour, material, Subcontractors) are optimised across these activities.
- Coordinate with foremen the procurement of materials and plant etc and order material deliveries.
- Responsible for the implementation of the methods set out in the relevant ITP's.

3.3 Project Surveyor

- Responsible for the delivery of survey controls and verifications
- Site Construction set out.
- Stockpile and end of month quantities measurements
- Create and update survey/design models for GPS guided earthworks and pavement equipment.
- Provide survey conformance Reports.

3.4 Foreman

- Responsible for the supervision and construction of specific elements of works for the Construction Period of the Project.
- Coordinate with site engineers the procurement of materials and plant etc.
- Ensure all dust suppression and noise pollution measures are implemented.
- Responsible for ensuring the appropriate type of pavement treatment is adhered to.
- Ensure the appropriate type of fill is used for the layers of the road earthworks.
- Ensure access to emergency services is available if required.

3.5 Field Staff

- Responsible construction of specific elements of works as directed by the foreman.

3.6 Quality Representatives

- The Project Quality Representatives (PQR) is responsible for ensuring that the quality requirements outlined in the IPMP and associated management system procedures are implemented and maintained on the project.

4 Construction Sequence

All Construction methodologies shall be carried out in accordance with the accompanying Construction Procedure (CP), and Inspection Test Plan (ITP). The purpose of this construction sequence is to provide a general overview into how the rail formation will be created. The CP will provide a more in-depth procedure for each major task that makes up the rail formation, and lastly the ITP provides further detail to the steps outlined in the CP, with all the relevant clauses, Hold Points, and Witness Points.

4.1 Rail Formation Methodology

1. Site Establishment (**CP-12 'Clearing and Grubbing'**).
2. Identify existing utilities (**CP-07 'Identification and Relocation of Utilities'**).
3. If necessary, identify all access roads that will be utilised and perform dilapidation surveys (**CP-17 'Access Road Maintenance'**).
4. Remove existing rail (Track Demolition) (**CP-21 'Track Demolition'**).
5. If necessary, remove/replace existing trackside signage (**CP-15 'Trackside Signage removal/replacement'**).
6. Preparation of Site for Construction Works (**CP-12 'Clearing and Grubbing'**).
7. Remove all reinforced concrete box culverts proposed for replacement in accordance with the Construction Procedure (**CP-01 'Removal and Installation of RCBC'**).
8. Remove all reinforced concrete pipes proposed for replacement in accordance with the Construction Procedure (**CP-04 'Removal and Installation of RCP's'**).
9. Test Subgrade in accordance with the project design drawings, relevant specifications and the Construction Procedure (**CP-14 'Rail Earthworks'**). Refer to **Attachment A** for the Subgrade Testing Diagram.
10. Perform the appropriate Ground Surface Treatment (**CP-14 'Rail Earthworks'**).
11. Install new reinforced concrete box culverts in accordance with the Construction Procedure (**CP-01 'Removal and Installation of RCBC'**).
12. Install new reinforced concrete pipes in accordance with the Construction Procedure (**CP-04 'Removal and Installation of RCP's'**).
13. Using existing and imported materials, construct the specified formation type in accordance with the Construction Procedure (**CP-14 'Rail Earthworks'**).
14. Construct the structural fill layer using the specified materials, in accordance with the Construction Procedure (**CP-14 'Rail Earthworks'**).
15. Construct the capping layer using the specified materials, in accordance with the Construction Procedure. (**CP-14 'Rail Earthworks'**).

16. Ensure the foundation is compliant and ready for the ballast and track structure to be placed.
(CP-14 'Rail Earthworks').
17. Reinstate the area after construction; backfilling any excavations and removing redundant material (CP-14 'Rail Earthworks').
18. Conduct survey set out and conformance in accordance with the relevant ITP's.

4.2 Discipline Interface

Construction of the rail formation is broken into 3 disciplines, Earthworks, Drainage & Structures and Level crossings. During construction it is paramount that the disciplines interact with each other with no conflict to program. This is achieved by conducting weekly 6-week lookaheads to identify any major clashes in program and daily 2 day look ahead for resource allocation, minor procurement and geotechnical testing requirements.

5 Detailed Construction Methods

5.1 Site Establishment

- Establish a site in accordance with **CP-12** '*Clearing and Grubbing*', whilst ensuring the following key tasks are completed.
 - Define the lot that the section of rail will be constructed in, and the section that existing select fill, and structural fill may be sourced from.
 - Establish a site in accordance with the relevant Environmental Management Plan.
 - If required, implement traffic control measures in line with the Traffic Management Plan.
 - Survey the area to determine if there are any obstructions, or relevant items of note in the area.

5.2 Utility Identification and Protection

- Perform all utility identification and protection activities in accordance with **CP-07** '*Identification and Relocation of Utilities*', whilst ensuring the following key tasks are completed.
 - Complete a Service Control Plan in accordance with the Utility Identification Management Plan.
 - Complete a Permit to Work and obtain all the necessary permits to work in accordance with the Utility Identification Management Plan.
 - Use non-destructive digging methods to positively identify utilities as required in accordance with the Utility Management Plan
 - If required use temporary or permanent protection methods as outlined in the Utility Management Plans.
 - Utilities noted for relocation within the drawings and Specification are to be done so in accordance with the Utility Management Plans, the Utility Authority requirements and as indicated on the ARTC project drawings and Project Specification

5.3 Access Road Maintenance

- Perform a dilapidation survey prior.
- Carry out maintenance works in accordance with **CP-17** '*Access Road Maintenance*'.
- Complete a post-construction dilapidation survey.

5.4 Removal of Existing Track

- Perform all track resurfacing activities in accordance with **CP-21** '*Track Demolition*', whilst ensuring the following key tasks are completed.
 - Remove rail lubricators, guard rails and modular level crossing panels.
 - Oxy-Cut Existing Rail
 - Remove rail and sleepers

5.5 Trackside Signage Removal/Replacement

- Perform all trackside signage removal/replacement activities in accordance with **CP-15** '*Trackside Signage Removal/Replacement*', whilst ensuring the following key tasks are completed.
 - Ensure existing utilities have been identified, and isolated.
 - Submit a demolition safety report to the Superintendent.
 - Excavate out the existing signage, and stockpile material.
 - Backfill existing excavation to the specified levels.

5.6 Preparation of Site for Construction Works

- Perform all clear and grub, and topsoil removal works in accordance with **CP-12** '*Clearing and Grubbing*', whilst ensuring the following key tasks have been completed.
 - Clear and grub area identifying both non-tree habitat and tree habitat and remove the material in accordance with **ITP 02** – '*Clearing and Grubbing*'.
 - Backfill and vegetate any holes left from the process.
 - Dispose of material in accordance with the Waste Management Plan.
 - Ensure all topsoil is removed in/after this process in accordance with **ITP 03** – '*Topsoil Stripping*'.

5.7 RCBC and RCP Removal

- Perform all RCBC and RCP removal activities in accordance with **CP-01** '*Removal and Installation of RCBC*', **CP-04** '*Removal and Installation of RCP*' whilst ensuring the following key tasks are completed.
 - Excavate to the appropriate depth.
 - Disconnect all live utilities, where applicable.
 - Provide Temporary support to the structure to be removed, as required.
 - Remove all elements of the structure and backfill the excavation to the defined levels.
 - Dispose and store of all demolition material in accordance with the relevant specification.

5.8 Subgrade and Ground Surface Treatment

- Perform all subgrade and ground surface treatments in accordance with **CP-14** '*Rail Earthworks*', whilst ensuring the following key tasks are completed.
 - Carry out the appropriate treatment, relevant to the subgrade strength. Refer to **Attachment A** for the Subgrade Testing Diagram.
 - Where required, proof roll to identify soft spots.
 - Undertake soft spot treatment, where required, in accordance with the direction provided by the Superintendent.

5.9 RCBC Installation

- Install RCBC's in accordance with **CP-01** '*Removal and Installation of RCBC*', whilst ensuring the following key tasks are completed.
 - After the site has been established, excavate the trench to the specified depth.
 - Construct suitable vehicle access and hard stand, where required.
 - Check the culverts for damage before offloading it.
 - Install a working platform of unreinforced concrete, as required.
 - Install the concrete base.
 - Place Culverts and wingwalls.
 - Backfill the sides and overlay zones.
 - Install scour protection, as required.

5.10 RCP Installation

- Install all RCP's in accordance with **CP-04** '*Removal and Installation of RCP*', whilst ensuring the following key tasks are completed.
 - After the site has been established, excavate the trench to the specified depth.
 - Construct suitable vehicle access and hard stand, where required.
 - Check the RCP's for damage before offloading it.
 - Install the RCP's in accordance with **ITP 12** – '*Reinforced Concrete Pipes*'
 - Backfill the excavation to the specified levels.

5.11 Formation Construction

- Perform all formation construction activities in accordance with **CP-14** '*Rail Earthworks*', whilst ensuring the following key tasks are completed.
 - Identify all material on site that can be re-used as general fill, and structural fill before importing more material.
 - Complete the Ground Surface Treatment in accordance with **ITP 04** - '*Ground Surface Treatment*'
 - Complete the Embankment in accordance with **ITP 06** - '*Embankments*'
 - Complete the Structural Fill Layer in accordance with **ITP 35** - '*Structural Fill*'
 - Complete the Capping Layer in accordance with **ITP 36** - '*Capping Layer*'
 - Use a straight edge to ensure surface smoothness.
 - The Ballast and Track structure can now be placed on top of the Rail Formation.

5.12 Reinstatement of Area

- Reinstatement of the area in accordance with **CP-14 'Rail Earthworks'**, ensuring the following tasks are completed.
 - Backfill any existing excavations, as required.
 - Remove any redundant materials from the site, as required
 - All material that has been identified for re-use, stockpile in accordance with project requirements.

5.13 Survey and Conformance

- Establish survey controls and verifications.
- Carry out survey conformance checks and reports as per respective construction procedures (CP's) and inspection test plans (ITP's).

6 Plant, Equipment and Materials

Resources			
Plant & Equipment	Materials	Labour	Sub-Contractors
Vacuum Truck	Signals	Operators	Signalling Team
Grader	Rail Steel	Tradesman	Rail Installation
Water cart	Sleepers	General Labourers	Culvert Installation
Roller	Precast Culverts	Technician	Traffic Controller
Compactor	General Fill	Additional Labour TBC	Additional Sub-Contractors TBC
Franna	Pavement Materials		
Manitou	Environment Controls		
Articulated Dump Truck	Capping Material		
Body Truck	Track Signage		
Side Tipper	Additional Material TBC		
Backhoe			
Dozer			
Crane			
Stabilizer			
Concrete Pump			
Additional Plant TBC			

Disclaimer: The Resources noted above are only an indicative indication of what will be required during construction. Please note that these requirements may change from time to time.

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7 Hazards/Risks

NB: This section will be updated in accordance with the Project Risk Register following the internal and external reviews recently undertaken.

Risk	Hazard / Aspect	Controls
Mobile Plant	People/Plant Interface; Plant Collision; Unfit for Purpose Plant.	Plant and Equipment Management COP Isolation and Tagging Management COP Training and Competency Management Standard Vehicle Management Plan BMD Online Training (BOLT) Contractor Management System (CMS) Fitness for Work Management Standard
Working at Heights	Fall from Height; Falling Objects.	Safety Management Plan Temporary Works Management Plan Working at Heights Management COP Scaffolding Management COP Plant and Equipment Management COP Formwork and Falsework Management COP Training and Competency Management Standard Subcontractor HSEQ Management Standard BMD Online Training (BOLT) Inducted Contractor Management System (CMS)
Confined Spaces	Injury due to Asphyxiation; Engulfment; Restricted Access/Egress; Working in Live Environment.	Safety Management Plan Risk Management Standard HSE Training and Competency Standard Fitness for Work Management Standard Training and Competency Management Standard Confined Spaces Management COP Trenching and Excavation Management COP Isolation and Tagging Management COP BMD Online Training (BOLT)
Other	Inexperienced Personnel, Subcontractor Performance	Safety Management Plan Subcontractor HSE Management Standard Training and Competency Management Standard BMD Online Training (BOLT) Contractor Management System (CMS)
Electrocution	Injury or Death from Electrocution.	Safety Management Plan Training and Competency Management Standard Subcontractor HSEQ Management Standard Electrical Equipment Management COP BMD Online Training (BOLT) Contractor Management System (CMS)
Other	Excessive hours, driving times/distance	Risk Management Standards Fatigue Management Plan Fitness for Work Management Standard Journey Management Procedure Safety Management Plan

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Risk	Hazard / Aspect	Controls
Other	Excess Hours, Dimensions, Mass, Breach of Responsibilities	Subcontractor HSEQ Management Standard Chain of Responsibility Management Plan Plant and Equipment COP Journey Management Procedure Fitness for Work Management Standard Safety Management Plan
Excavation and Trenching	Trench / Excavation Collapse; Engulfment of Persons; Plant Rollover; Non-compliant Trenching / Excavation; Working at Heights / Live Edges	Lifting Management COP Trenching and Excavations COP Plant and Equipment COP Training and Competency Management Standard Operator Skills Assessment and Safe Operating Procedures for all Plant and Operators Construction Safety Management Plan Emergency Response Plan
Manual Handling	Injury due to manual handling issues.	HSE Training and Competency Standard Hazardous Manual Handling COP Plant and Equipment Management COP General Labouring and Manual Handling WMS Fit for Work Management Standard BMD Online Training Induction Safe Operating Procedures for all Plant and Operators Pre-Employment Medicals for Specified Staff Safety Management Plan
Fitness for Work	Workers/staff remove and/or apply the incorrect allocation of controls around hazard	Fitness for Work Management Standard Safety Management Plan Onsite Protocols - Internal Drug and Alcohol Testing Safety Management Plan Fatigue management Plan
Waste	Generation of Waste	Construction Environmental Management Plan CEMSP Soil and Land Management, Waste and Recycling Management Waste and Recycling Management COP Soil and Land Management COP
Working Near Services	Striking and Damaging of Services.	Working Near Services Management COP Plant and Equipment Management COP Service Control Plan (SCP) Isolation and Tagging Management COP Training and Competency Management Standard BMD Online Training (Bolt) Contractor Management System (CMS) External Training for Key Staff by RTO
Lifting Operation	Lifting Operation or Equipment Failure; Untrained / Competency Personnel.	Lifting Management COP Training and Competency Management Standard Plant and Equipment Management COP Working at Heights Management COP BMD Online Training (Bolt)

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Risk	Hazard / Aspect	Controls
Other	Plant	Plant and Equipment Management COP Isolation and Tagging COP Training and Competency Management Standard Traffic Management Standard and Plans BMD Online Training (BOLT) Contractor Management System (CMS) Pre-Site Acceptance
Traffic Interface	Access and Egress; Interface with Public; People / Plant Interface; Plant Collision.	HSE Training and Competency Standard Traffic Management Standard Plant and Equipment Management COP Traffic Management Plan Safety Management Plan Vehicle Management Plan
Temporary Works	Work Failure / Collapse.	Scaffold COP Formwork and Falsework COP Temporary Works Design and Engineering Certification (Temporary Works Designer/RPEQ) Safety Management Plan Temporary Works Management Plan
Working Remote	Injured while Working Alone; Delays getting Medical Assistance	Safety Management Plan Emergency Response Plan Remote or Isolated Work Management COP Mobile / Satellite Phones / UHF Communication
Other	Exacerbation of Harm to Workforce, Stakeholders, Environment and Commercial Position	Safety Management Plan Emergency Response and Crisis Management Standard Pressure Tests and Emergency Response Drills
Work Environment Exposure	Exposure to Environmental Condition(s) (Heat Stress, Sun Exposure, Dehydration etc.).	Safety Management Plan HSE Training and Competency Standard Remote or Isolated Work COP Heat Stress Management Policy Fitness for Work Standard
Hazardous Chemicals	Use and Storage.	Safety Management Plan HSE Training and Competency Standard Hazardous Chemicals Management COP Hazardous Chemical Risk Assessment Safety Data Sheet
Hazardous Chemicals	Unknown Material Discovery Onsite, Worker Exposure resulting in Injury / Illness	Safety Management Plan Hazardous Chemical Management COP Asbestos Management COP Hazardous and Contaminated Materials Management Plan Transport Certificate
Other	Driving in Poor Conditions or for Extended Periods of Time	Fitness for Work Management Standard Safety Management Plan Fatigue Management Plan Journey Management Procedure

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Risk	Hazard / Aspect	Controls
Other	Cutting, Welding, Oxy-Acetylene, Explosion, Fire	Safety Management Plan Emergency Response Plan BMD Mandatory Instructions Hot Works Permit Competency to Operate (CTO) Procedure Job Hazard Analysis (JHA)
Other	Works around Public and Community	Traffic Management Plan Communication and Community Engagement Management Plan Health and Community Wellbeing Management Plan Social Impacts Management Plan
Water Quality	Erosion of Soil / Sediment Runoff from Site During Rainfall Events; Release of Contaminants Offsite; Non-Compliant Water Discharge and ESC	Environmental Management Plan Water Quality Management COP Primary Erosion and Sediment Control Plan Soil and Water Management Plan Water Discharge Permit
Other	Working Near Gas Distribution Services;	Safety Management Plan Utility Identification and Protection Management Plan Utility Management Plan Working Near Services Management COP Plant and Equipment Management COP Service Control Plan (SCP) Isolation and Tagging Management COP Training and Competency Management Standard BMD Online Training (BOLT) Permit to Work Near Services Dial Before You Dig (DBYD) and Investigate, Locate, Prove and Mark Services to be conducted prior to commencing works. Nominated Service Advisor(s) to complete BMD Service Advisor Training APA Asset Corridor Protection Officer and Permit Issuing Officers (PIO)
Other	Working / Operating Inside the Danger Zone / Rail Corridor	Safety Management Plan Rail Industry Workers Card (RIWC) Onsite Track Easy System Rail Worker's Safety Medical (Category 3) ARTC National Contractor Induction, Track Safety Awareness (TSA) or National Track Safety Awareness (NTSA)

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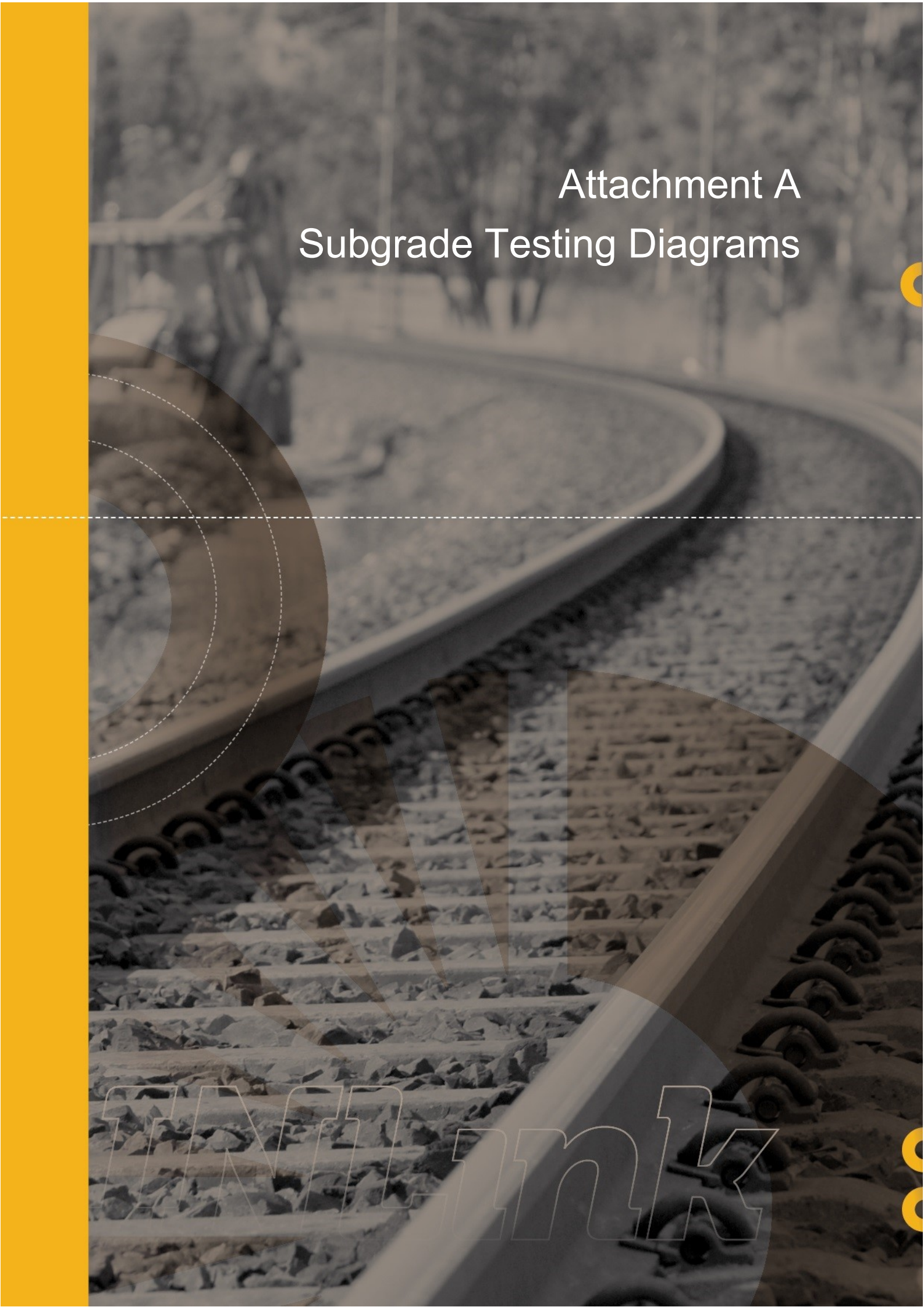
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Risk	Hazard / Aspect	Controls
Heavy Vehicle Movements	Heavy Vehicle Movement Interacting with Public; Fatigue	Fitness for Work Management Standard Safety Management Plan Plant and Equipment Management COP Chain of Responsibility Management Plan Heavy Vehicle Inspection Checklist
Other	Worker Mental Health and Wellbeing; Isolation; Working away from Home	Human Resources Standard Employee Assistance Program and Support (Mates in Construction) BOLT Online Training Project Safety Management Plan Fitness for Work Management Standard WMS 001 Pre-planning and Arrival to Site

We, the undersigned, confirm that this CMS has been explained, its contents are clearly understood, and that we have been given the opportunity to make comments. We also confirm that our required qualifications to undertake this activity are current. We also clearly understand that the controls in this CMS must be applied as documented, otherwise work is to cease immediately.

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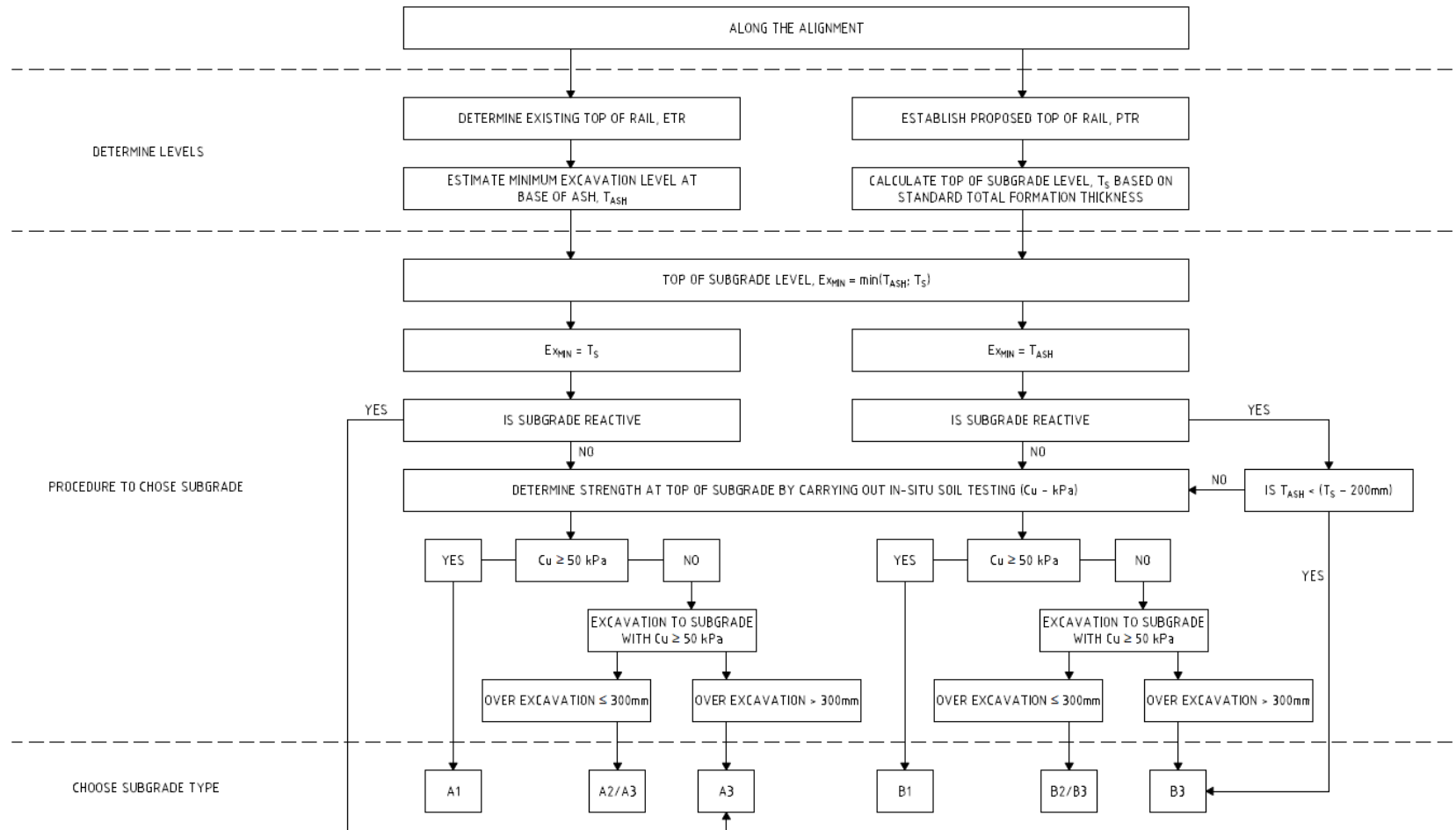


Attachment A

Subgrade Testing Diagrams

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Figure 1 – Subgrade Testing Diagram #1



Attachment B

Insert if Required

INTELLINK

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INLink

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