

PARTICULAR SPECIFICATION

APPENDIX B

SCHEDULE OF KEY DATES

1.0 PROGRAMMING AND PLANNING

1.1 KEY DATES

The Contractor shall ensure that the key dates in Schedule B1 are adhered to strictly so as not to impede the works of the Interfacing Contractors and all other parties affected by the Works.

The key dates in Schedule B1 and B4 shall be incorporated in the preparation of the Co-ordinated Installation Programme (CIP).

1.2 MILESTONES FOR MOCK UPS

The Contractor shall provide milestone dates for mock ups, procurement, delivery, installation and inspections of all necessary items for the timely completion of the Works and to be accepted by the Engineer.

1.3 BASIC STRUCTURE COMPLETION – TUNNELS

Basic Structure Completion shall constitute the following:

- 1.3.1 All reinforced concrete structures completed and area is clean, dry and watertight. This includes backfilling above cut & cover tunnels.
- 1.3.2 Falsework and Temporary Works removed.
- 1.3.3 Temporary sump pumps and all pipe works including discharge pipe connections to surface in place.
- 1.3.4 Temporary lighting and power in place.
- 1.3.5 Temporary power for temporary tunnel ventilation fans in place.
- 1.3.6 All cable brackets and first stage concrete completed.
- 1.3.7 Finalisation of alignment and wriggle survey completed and ready for SWC to access.
- 1.3.8 Cross passages completed including installation of doors.
- 1.3.9 Escape shafts completed to threshold level and made safe against flooding including installation of doors.
- 1.3.10 Ventilation shafts are to be completed to threshold level and made safe against flooding.

1.4 BASIC STRUCTURE COMPLETION – Station

Basic Structure Completion shall constitute the following:

- 1.4.1 All reinforced concrete structures completed to threshold level and made safe against flooding; and area is clean, dry and weatherproof. Roof openings where required for equipment delivery including ventilation shafts and the likes are to be similarly completed to threshold level and made safe against flooding.
- 1.4.2 Underplatform level, utility ducts, cable shafts and basements completed and watertight. The area clear of all obstructions, debris and water.
- 1.4.3 Earthmats installed and tested.
- 1.4.4 Waterproofing and screeding to plant rooms (where required) completed.
- 1.4.5 Partition walls completed except those to be constructed after SWC plant delivery.
- 1.4.6 Trenches, plinths, penetrations, access openings, grooves for concealed conduits, holding down anchors as per SWC requirement completed.
- 1.4.7 All cast-in items installed including items required for SWC plant.
- 1.4.8 All cast-in lifting facilities installed and tested.
- 1.4.9 Falsework and Temporary Works removed.
- 1.4.10 Temporary sump pumps and all pipe works including discharge pipe connections to surface in place.
- 1.4.11 Temporary lighting, power and ventilation in place.
- 1.4.12 Areas accessible for SWC installation and all routes to station/rooms available and free from obstructions.
- 1.4.13 The trainway is clean, dry and watertight. There is a direct and safe man-access through the station to the trainway. All trainway cable brackets and first stage concrete completed.

1.5 BASIC STRUCTURE COMPLETION – Entrance

Basic Structure Completion shall constitute the following:

- 1.5.1 All reinforced concrete structures completed to threshold level and made safe against flooding; and area is clean, dry and weatherproof.
- 1.5.2 All cast-in items installed including items required for SWC plant.
- 1.5.3 All cast-in lifting facilities installed and tested.
- 1.5.4 Falsework and Temporary Works removed.
- 1.5.5 Temporary sump pumps and all pipe works including discharge pipe connections to surface in place.
- 1.5.6 Temporary lighting, power and ventilation in place.
- 1.5.7 Areas accessible for SWC installation and all routes to station/rooms available and free from obstructions.

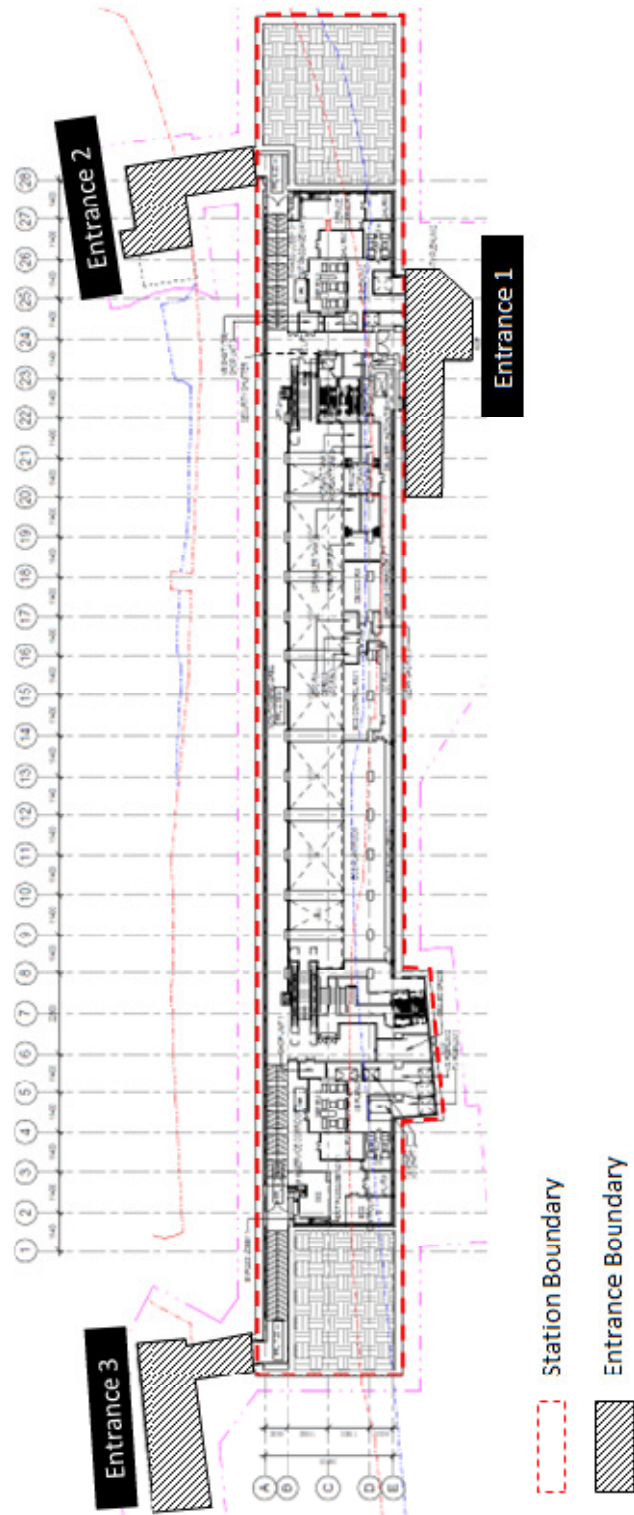
SCHEDULE B1 – KEY DATES

Description	Date
SITE POSSESSION	
1) Worksite Area A	1 March 2024
2) Worksite Area C	15 June 2026
DESIGN SUBMISSION	
1) Preliminary Design Submission	30 April 2024
2) Pre-Final Design Submission	30 September 2024
3) Pre-Final Design CCSM Submission	28 February 2025
4) Final Design Submission	30 April 2025
5) Final Design CCSM/SEM Submission	30 September 2025
6) Updated Final Design CCSM/SEM Submission	31 August 2026
7) Contract Drawings and Specification Delivery	30 October 2026
SECTIONAL COMPLETION	
1) Basic Structure Completion – Tunnel	1 October 2029
2) Basic Structure Completion – Station	30 October 2029
3) Basic Structure Completion – Entrances	
A. Entrance 1	30 October 2029
B. Entrance 2	30 March 2030
C. Entrance 3	30 October 2029
4) Category A Rooms Degree 1 Finishes	30 November 2029

SCHEDULE B1 – KEY DATES (Cont'd)

Description	Date
INTERFACE KEY DATES	
Interface with CR205	
1) Work site access arrangement signed-off of ground improvement works for CR206 TBMs	30 November 2024
2) CR205 allow access to CR206 at CR205/CR206 interface area for tunnel breakthrough	30 October 2028
Interface with CR207	
1) Work site access arrangement signed-off of ground improvement works for CR207 TBMs	30 December 2024
2) CR206 allow access to CR207 at CR206/CR207 interface area for tunnel breakthrough	30 October 2028
Water-On	30 March 2031
Completion of the whole of the Works	30 June 2032

DEMARCATON OF STATION AND ENTRANCES BOUNDARY



SCHEDULE B2 – CUT-OFF DATES FOR EXCHANGE OF INFORMATION DURING DESIGN INTERFACE

		Cut-off Dates for Civil Contracts									
Civil Contracts / A&A		CR211	CR210	CR209	CR208	CR207	CR206	CR205	CR203	CR202	
		CR19	Intake Sub-station	CR18	CR17		CR16	CR15	CR14	FB04	
		Cut-off Dates for Design Submission Dates for Stations and Tunnels									
Preliminary Design		30/10/24 (Wed)	30/9/24 (Mon)	28/2/24 (Wed)	30/1/24 (Tue)	30/10/24 (Wed)	30/3/24 (Sat)	30/1/24 (Tue)	30/9/24 (Mon)	30/6/23 (Fri)	
Pre-final Design		31/3/25 (Mon)	28/2/25 (Fri)	30/7/24 (Tue)	1/7/24 (Mon)	31/3/25 (Mon)	30/8/24 (Fri)	1/7/24 (Mon)	28/2/25 (Fri)	30/11/23 (Thu)	
Final Design		30/10/25 (Thu)	30/9/25 (Tue)	28/2/25 (Fri)	30/1/25 (Thu)	30/10/25 (Thu)	31/3/25 (Mon)	30/1/25 (Thu)	30/9/25 (Tue)	1/7/24 (Mon)	
		Cut-off Dates for CCSM & CCSM/SEM Submission Dates for Stations and Tunnels									
Pre-Final Design		30/7/25 (Wed)	30/6/25 (Mon)	30/11/24 (Sat)	30/10/24 (Wed)	30/7/25 (Wed)	30/12/24 (Mon)	30/10/24 (Wed)	30/6/25 (Mon)	30/3/24 (Sat)	
Final Design		28/2/26 (Sat)	30/1/26 (Fri)	30/6/25 (Mon)	30/5/25 (Fri)	28/2/26 (Sat)	30/7/25 (Wed)	30/5/25 (Fri)	30/1/26 (Fri)	30/10/24 (Wed)	
Updated Final Design		30/10/26 (Fri)	30/9/26 (Wed)	30/5/26 (Sat)	30/4/26 (Thu)	30/10/26 (Fri)	30/6/26 (Tue)	30/4/26 (Thu)	30/9/26 (Wed)	30/6/25 (Mon)	
TBA		Cut-off Dates for CCSM/SEM Submission Dates for Stations									
Design and Construction of PSC and SMR		Updated Final Design	1/10/29 (Mon)	NA	30/5/29 (Wed)	30/6/29 (Sat)	NA	30/6/29 (Sat)	30/6/29 (Sat)	30/4/29 (Mon)	NA

Note:

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- 1
- Where a date falls on a Public Holiday, it shall be taken to mean the next working day.
- 2
- The above diagram is to identify design dates for the respective stations and tunnels. It shall not be taken to represent the Civil Contracts' boundary.
- 3
- Illustration of the above chart
Pre-final Design Cut-off Date under CR17 station and associated tunnels (i.e.

CR17

) is on 01/07/24.
- 4
- For interfacing System-Wide Contractors (SWC) that comes on board later, the Contractor shall follow their respective system design dates and interface with consultants or LTA for the development of their Interface Documents submissions.
These submissions shall be re-coordinated and updated upon the award of the respective contractors with accordance to the dates indicated for the relevant SWC.
- 5
- Not Used


SCHEDULE B3 – KEY DATES FOR DESIGN SUBMISSION

		Submission Dates for Civil Contracts								
Civil Contracts / A&A		CR211	CR210	CR209	CR208	CR207	CR206	CR205	CR203	CR202
		Design Submission Dates for Design Submission Dates for Stations and Tunnels								
	Preliminary Design	30/11/24 (Sat)	30/10/24 (Wed)	30/3/24 (Sat)	28/2/24 (Wed)	30/11/24 (Sat)	30/4/24 (Tue)	28/2/24 (Wed)	30/10/24 (Wed)	31/7/23 (Mon)
	Pre-final Design	30/4/25 (Wed)	31/3/25 (Mon)	30/8/24 (Fri)	30/7/24 (Tue)	30/4/25 (Wed)	30/9/24 (Mon)	30/7/24 (Tue)	31/3/25 (Mon)	30/12/23 (Sat)
	Final Design	1/12/25 (Mon)	30/10/25 (Thu)	31/3/25 (Mon)	28/2/25 (Fri)	1/12/25 (Mon)	30/4/25 (Wed)	28/2/25 (Fri)	30/10/25 (Thu)	30/7/24 (Tue)
	Submission Dates for CCSM & CCSM/SEM Submission Dates for Stations and Tunnels									
	Pre-Final Design	30/9/25 (Tue)	30/8/25 (Sat)	30/1/25 (Thu)	30/12/24 (Mon)	30/9/25 (Tue)	28/2/25 (Fri)	30/12/24 (Mon)	30/8/25 (Sat)	30/5/24 (Thu)
	Final Design	30/4/26 (Thu)	30/3/26 (Mon)	30/8/25 (Sat)	30/7/25 (Wed)	30/4/26 (Thu)	30/9/25 (Tue)	30/7/25 (Wed)	30/3/26 (Mon)	30/12/24 (Mon)
Updated Final Design	30/12/26 (Wed)	30/11/26 (Mon)	30/7/26 (Thu)	30/6/26 (Tue)	30/12/26 (Wed)	31/8/26 (Mon)	30/6/26 (Tue)	30/11/26 (Mon)	30/8/25 (Sat)	
TBA	Design and Construction of PSC and SMR	CCSM/SEM Submission Dates for Stations								
Updated Final Design		30/11/29 (Fri)	NA	30/7/29 (Mon)	30/8/29 (Thu)	NA	30/8/29 (Thu)	30/8/29 (Thu)	30/6/29 (Sat)	NA

Note:

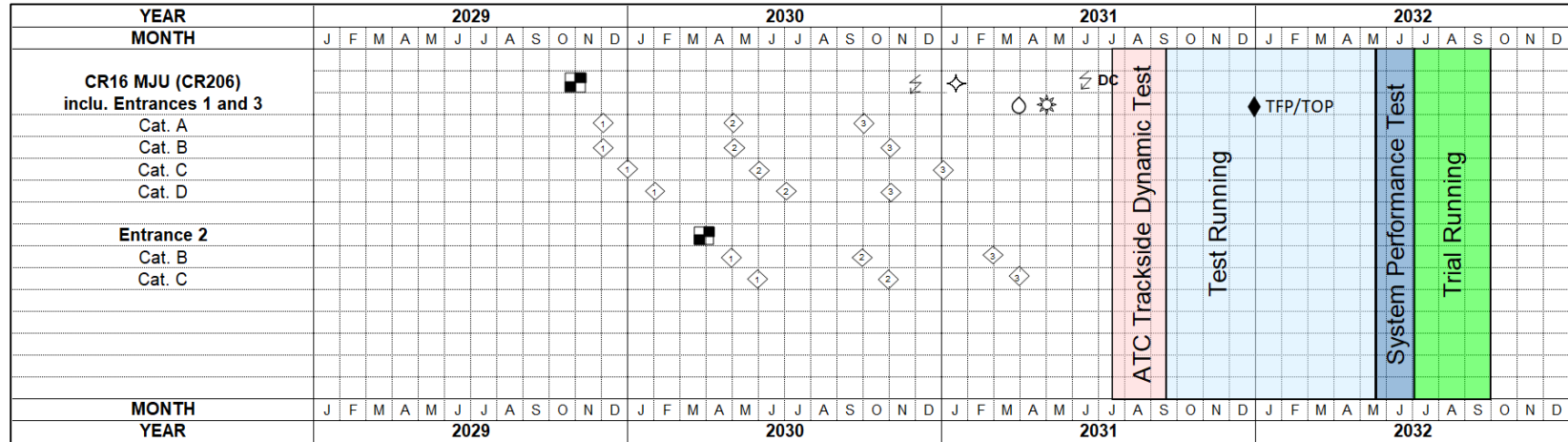
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- 1Where a date falls on a Public Holiday, it shall be taken to mean the next working day.
- 2The above diagram is to identify design dates for the respective stations and tunnels. It shall not be taken to represent the Civil Contracts' boundary.
- 3Illustration of the above chart

Pre-final Design Submission under CR17 station and associated tunnels (i.e. ) is on 30/07/24.
- 4For interfacing System-Wide Contractors (SWC) that comes on board later, the Contractor shall follow their respective system design dates and interface with consultants or LTA for the development of their Interface Documents submissions. These submissions shall be re-coordinated and updated upon the award of the respective contractors with accordance to the dates indicated for the relevant SWC.
- 5Not Used

PS-B-9

**SCHEDULE B4 – DEGREE FINISH DATES
CROSS ISLAND LINE PHASE 2**



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Legends:

- Basic Structure Completion
- ⚡ 22kV & Main LV Power On
(LV Power to SWC's MCC/Isolator is approximately 1 month after this date)
- ⚡ Completion of Communications Backbone Network & Telephone System (CBN)
- Water On
- ⚡^{DC} DC Power On
- ⚡ Completion of Radio System
- 1 Degree 1 Finish
- 2 Degree 2 Finish
- 3 Degree 3 Finish
- ♦ Commencement of TFP/TOP inspection

Note:

- All dates shall be read either as 15/Month/Year or 30/Month/Year (except for February which shall be read as 28/Feb/Year) as indicated by symbols. Where a date falls on a Sunday or a Public Holiday, it shall be taken to mean the next working day.
- SWC access to the respective facility building/station is at the earliest Degree 1 Finish date.
- The CBN indicates ability of OCC / BOCC to communicate with the stations.
- SWC's major equipment that are delivered through the delivery shaft in the facility building/station shall be delivered within 3 months of Cat A Degree 1 Finish Date. After which, Civil Contractor shall commence closure of the access shaft.
- The detailed boundaries between Station and Entrances/Exits shall be co-ordinated and agreed with the interfacing contractors.

CONTRACT CR206

SCHEDULE B4 – DEGREE FINISHES

Type of Room	Designated SWC	Degree 1 Finish	Degree 2 Finish	Degree 3 Finish
Category A		Completion of the following:	Completion of the following:	Completion of the following:
22kV Switch Room	CR153	Civil	Civil	Civil
Traction Transformer Room	CR153	1. Floor finishes	1. 2nd coat of paint	1. Final coat of painting
Traction Power Sub-station	CR153	2. Installation of permanent doors with lock	SWC except for the designated SWC	SWC
Service Transformer Room	CR153	3. 1st coat of paint	2. Installation of all first and second fix items	2. All works including site testing*
Tie Breaker Room	CR153			All
LV Switch Room	TBA			3. Final cleaning and sealing of all openings
Includes cable chambers, passageways and corridors adjacent to these rooms and the associated battery rooms should the batteries be housed in separate rooms.				

* denotes inclusion of testing with temporary power and, to the extent available, with permanent power.

SCHEDULE B4 – DEGREE FINISHES

Type of Room	Designated SWC	Degree 1 Finish	Degree 2 Finish	Degree 3 Finish
Category B		Completion of the following:	Completion of the following:	Completion of the following:
Communication Equipment Room/ Integrated Supervisory Control System Room	CR160	Civil 1. Floor finishes except raised floor	Civil 1. 2nd coat of paint	Civil 1. Installation of permanent doors with lock
Signal Equipment Room	CR152		2. Raised floor	
Environmental Control System Control Room	TBA	2. Installation of temporary doors with lock	SWC except for the designated SWC	2. Final coat of paint
Local Sequential Control Room	TBA	3. 1st coat of paint		SWC
Tunnel Ventilation Fan Room	TBA		3. Installation of all first fix items	3. All works including site testing*
Fan Room	TBA			All
Uninterruptible Power Supplies Room	TBA			4. Final cleaning and sealing of all openings
Distribution Board Room	TBA			
Emergency Switchboard Room	TBA			
Includes passageways and corridors adjacent to these rooms and the associated battery rooms should the batteries be housed in separate rooms				

* denotes inclusion of testing with temporary power and, to the extent available, with permanent power.

SCHEDULE B4 – DEGREE FINISHES

Type of Room	Degree 1 Finish	Degree 2 Finish	Degree 3 Finish
Category C	Completion of the following:	Completion of the following:	Completion of the following:
Air Handling Unit Room	Civil	Civil	Civil
Clean Gas Room	1. Floor finishes	1. 2nd coat of paint	1. Installation of permanent doors with lock
Cooling Tower Enclosure	2. Installation of temporary doors with lock	2. Installation of glass panels for glass lift shaft	2. Final coat of paint
Cooling Tower Pump Room	3. 1st coat of paint	SWC	SWC
Drainage Pump / Sump Pump Room	4. Steel / Concrete structure	3. Installation of all first fix items	3. All works including site testing*
Ejector Pump Room			All
Emergency Power Supply Room			4. Final cleaning and sealing of all openings
Environmental Control System Plant Room			
Escalator Machine Room / Control Panel Closet			
Fare Equipment Room			
Fire Hydrant Pump Room			
Fire Pump / Sprinkler Pump Room			
Fuel Tank Room			
Fuel Pump Room			
Generator Room			
Lift Motor Room / Lift Shaft			
Main Distribution Frame Room			
Seepage Water Holding Tank			
Sprinkler Water Tank			
Smoke Extract Fan Room			
Telecommunication Equipment Room			
Under Platform Exhaust Fan Room			
Includes passageways and corridors adjacent to these rooms and the associated battery rooms should the batteries be housed in separate rooms			

* denotes inclusion of testing with temporary power and, to the extent available, with permanent power.

SCHEDULE B4 – DEGREE FINISHES


Type of Room	Degree 1 Finish	Degree 2 Finish	Degree 3 Finish
Category D Passenger Service Centre Station Master Room	Completion of the following: 1. Structure	Completion of the following: 1. Installation of all first fix items except table top equipment 2. Floor finishes 3. Wall finishes 4. Installation of glass panels 5. Installation of permanent doors with lock 6. Installation of furniture	Completion of the following: 1. Ceiling finishes 2. Installation of all second fix items including table top equipment

Notes:

1. If rooms of different categories are combined into one, the combined room shall be re-categorised according to the earlier category. For example, if Category A and Category B rooms were combined, the combined room shall be re-categorised as Category A room.
2. First fix items include all equipment, grilles, louvres, conduits, cable trays, trunking, junction boxes, knockout boxes, pipework, ducting, insulation, wiring, cabling and the like.
3. Second fix items include socket outlets, switches, sprinkler heads, detectors, light fittings, speakers, diffusers and the like.
4. Temporary door shall be 45mm thick hollow core flush door without painting and mounted on permanent door frame grouted in.
5. The order for completion of the work specified within each Degree shall be co-ordinated among the System-wide Contractors (SWC) in the development of the Co-ordinated Installation Programme (CIP).
6. Installation of removable panels shall be carried out immediately after the respective major equipment delivery.
7. For the purpose of CIP co-ordination and development, underplatform level shall be classified as Category A. Cabling work and equipment installation shall be identified in the CIP and Baseline Programme.

**SCHEDULE B5 – TRACK RELATED INSTALLATION PROGRAMME
CROSS ISLAND LINE PHASE 2**

The schedule B5 indicates the access that is allocated to the respective SWC for tunnel related installation. The schedule shall be read in accordance with the following:

1. Access to tunnel for installation of temporary tunnel ventilation system and communications system is 1 month prior to the access for trackwork installation. The work shall be completed within this period.
2. CR155 and CR168 shall utilise 2 days and 1 day respectively for each week of access allocated to CR161, CR155 and CR168. Details shall be co-ordinated among the three parties.
3. Access for the delivery of PSD through the tunnels (up to 6 nights per bound, at each station) will be at the discretion of the Engineer.
4. The Environmental Control Services (ECS) Contractor will be provided with 1 works train with 2 flat wagons (1 week per bound) for the removal of temporary tunnel ventilation system.
5.  denotes OCR installation at the shaft areas. CR159 shall coordinate with works train office for the movement of works trains launching from Depot for the installation of OCR at the shaft areas.
6. More wagons may be allocated, subject to availability, at the discretion of the Engineer.
7. Any modifications to wagons shall be authorised and supervised by relevant Qualified Person. SWC shall reinstate the wagons to their original condition or otherwise as agreed by the Engineer.
8. SWC shall comply with the rules and regulations specified in the works trains manual.

SCHEDULE B5 – TRACK RELATED INSTALLATION PROGRAMME
CROSS ISLAND LINE PHASE 2

