

## 7.5 Interface with Advance Utilities Contract CR2016

- 7.5.1.1 Contract CR2016 is the design, construction, supervision and completion of water pipes diversion, sewer pumping main diversion, diversion of existing utilities to common utilities corridor, drain diversion, ground levelling and other associated works along Clementi Road/ Clementi Forest. The Contractor shall liaise, coordinate and take into account CR2016's works when planning the Works.
- 7.5.1.2 The Contractor shall note that CR2016 will complete the ground levelling works at 18 mSHD including tie-in with adjacent road levels for the worksite Area A as per the site possession date in PS Appendix B Key Dates. The Contractor shall liaise and coordinate with CR2016 for the condition of worksite Area A handover.
- 7.5.1.3 The Contractor shall note that the use of land area in worksite Area A as shown in the Authority's Drawings would only be made accessible from 1 March 2024 onwards. The Contractor shall make allowance for the works interfacing with CR2016 in his programme to possess part of or the whole of Area A from 1 March 2024 onwards, subject to interfacing with CR2016 and the Engineer's acceptance.
- 7.5.1.4 The Contractor shall liaise and coordinate with CR2016 for worksite planning and ensure that the required hoarding and noise barriers are in place for his works. The Contractor shall design, supply, erect, and dismantle necessary noise barriers to comply with the relevant authorities/agencies requirements along his construction worksite boundary subject to the Engineer's acceptance.
- 7.5.1.5 The Contractor shall refer to **Clause 16** of the Particular Specification for the coordination with the CR2016 contractor for utilities diversion works.
- 7.5.1.6 The Contractor shall coordinate with CR2016 for the as-built slope design along Clementi Forest. The Contractor shall take over and maintain the slope, inclusive of drain holes installed by CR2016 on the slope, until completion of the reinstatement works. The Contractor shall also remove the temporary works not limiting to shotcrete, soil nail, sheet piles, soldier piles, capping beam, and etc. installed by CR2016 and reinstate the slope to the satisfaction of the land owner and the Engineer.
- 7.5.1.7 The Contractor shall take the necessary measures to protect and monitor the slopes stability during the underground station construction works. Any modifications to the existing slope or measures to ensure the slope stability are deemed included under the Contract Price.

- 7.5.1.8 The Contractor shall note that CR2016 utilities, drainage and traffic diversion works are on-going when the Contractor is on-board. The Contractor shall liaise and coordinate with CR2016 for their schedule of works.
- 7.5.1.9 The Contractor shall note that any ongoing Advance Utility Diversion Works that continues beyond **30 Dec 2024**, the Contractor shall be required to take over from CR2016 to continue to liaise and coordinate with the utility agencies including providing attendance so as to enable the utility agencies to complete the remaining advanced diversion works. The cost for the aforesaid attendance, coordination and liaison works by the Contractor is deemed to be included in the Contract Price.
- 7.5.1.9A The Contractor shall note that CR2016 design drawings are for information only. The Contractor shall liaise and coordinate with CR2016 Contractor to obtain all the necessary updated and as-built information for incorporation into his design and construction of the Works accordingly. The Contractor shall be required to ascertain the accuracy of the information provided and make all necessary cost and time allowances in this regard.
- 7.5.1.10 The Contractor shall be liable for and shall indemnify the Authority against all costs, charges, expenses and the like sustained by the Authority or no claim for extension of time and/or additional costs by the Contractor will be accepted by the Authority arising out of or in association with the Contractor's failure to discharge his obligations as specified hereinabove.
- 7.6 Interface with PUB DTSS Contractor**
- 7.6.1 The Contractor shall note that PUB's contractor are constructing Deep Tunneling Sewerage System (DTSS) 2.1 m diameter link sewer along Clementi Road. The Contractor shall coordinate with PUB's contractor for their sequence of works and scheduled timeline.
- 7.6.2 The Contractor shall note that the existing 600mm diameter pumping main run across the proposed underpass structures. The pumping main will be decommissioned by PUB DTSS Contractor upon completion of the DTSS 2.1m diameter link sewer. The Contractor shall liaise with and co-ordinate with PUB DTSS Contractor on the decommissioning works.
- 7.6.3 Prior to the underpass construction works, the Contractor shall coordinate, verify and ensure that the existing 600mm diameter pumping main has been decommissioned and properly sealed off to his satisfaction.

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- 7.6.4 In the event the existing 600mm diameter pumping main has not been decommissioned in time for his Works, the Contractor shall design and divert the existing 600mm diameter pumping main subject to approval from relevant agencies. All cost and time is deemed to be included in the Contract Price.
- 7.6.5 The Contractor shall decommission the existing 525 mm diameter sewer pumping main upon the completion of the DTSS 2.1 m diameter link sewer.
- 7.6.6 The Contractor shall comply with the minimum setback from the proposed sewers (refer to PUB WRN requirement on the sewer/pumping main setback) and ensure that CR206 works does not impact the operation of DTSS link sewer.

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S/N	Description of Landscape Works		Scope of Installation	Scope of Maintenance
3	On State / NParks Land (Outside Road Reserve) – Cont'd		<p><b>Within other land (not maintained by NParks)</b></p> <ul style="list-style-type: none"> <li>CR206 to share the landscaping scheme provided by NParks to relevant landowners to seek their concurrence on the scheme</li> <li>CR206 to coordinate with the landowners on the scheme and reinstatement. These works will not be carried out by NParks</li> </ul> <p><b>Within state land (maintained by NParks)</b></p> <ul style="list-style-type: none"> <li>Landscaping scheme to be designed by NParks</li> <li>NParks to plant greenery within state land</li> <li>CR206 to excavate to 1m soil depth along planting verge and 600mm at service verge before handing over to the Specialist Sub-contractor (SS) for Approved Soil Mix (ASM) backfill</li> </ul>	<ul style="list-style-type: none"> <li>NIL</li> </ul>
4		<p>Green roof on station entrances*</p> <p>CR206 shall design dedicated access for NParks to carry out maintenance for the green roof. CR206 shall ensure access provision is coordinated with PTS and Operator, and comply with PTS requirement.</p>	<ul style="list-style-type: none"> <li>CR206 to propose the type of <u>green roof and roof-edge planting</u> system, <u>type of vegetation</u> and get agreement from NParks</li> <li>CR206 to provide and install the green roof <u>and roof-edge planting</u> system including the vegetation and water irrigation system</li> </ul>	<ul style="list-style-type: none"> <li>NParks to maintain the whole green roof <u>and roof-edge planting</u> system including the plants, substrate and irrigation system</li> <li>PTO will provide for the use of water and electricity</li> </ul> <p>*Irrigation provision and system shall be submitted to NParks for further coordination and agreement</p>