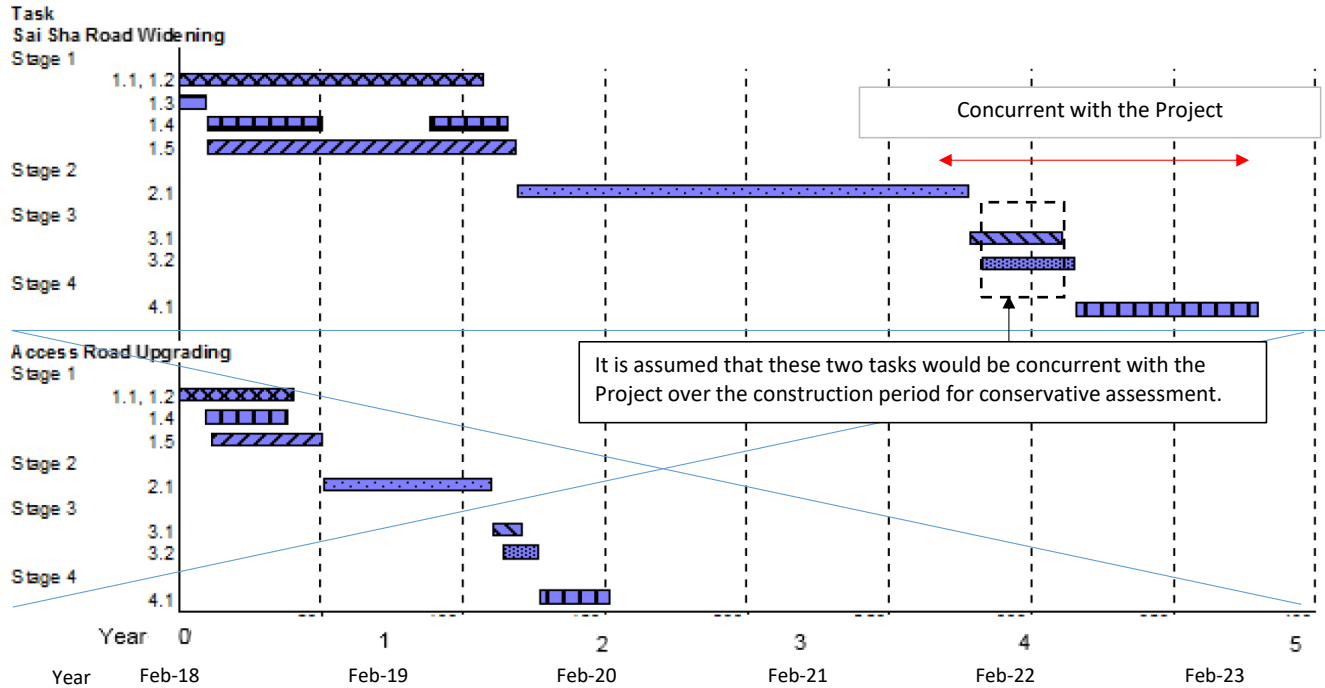


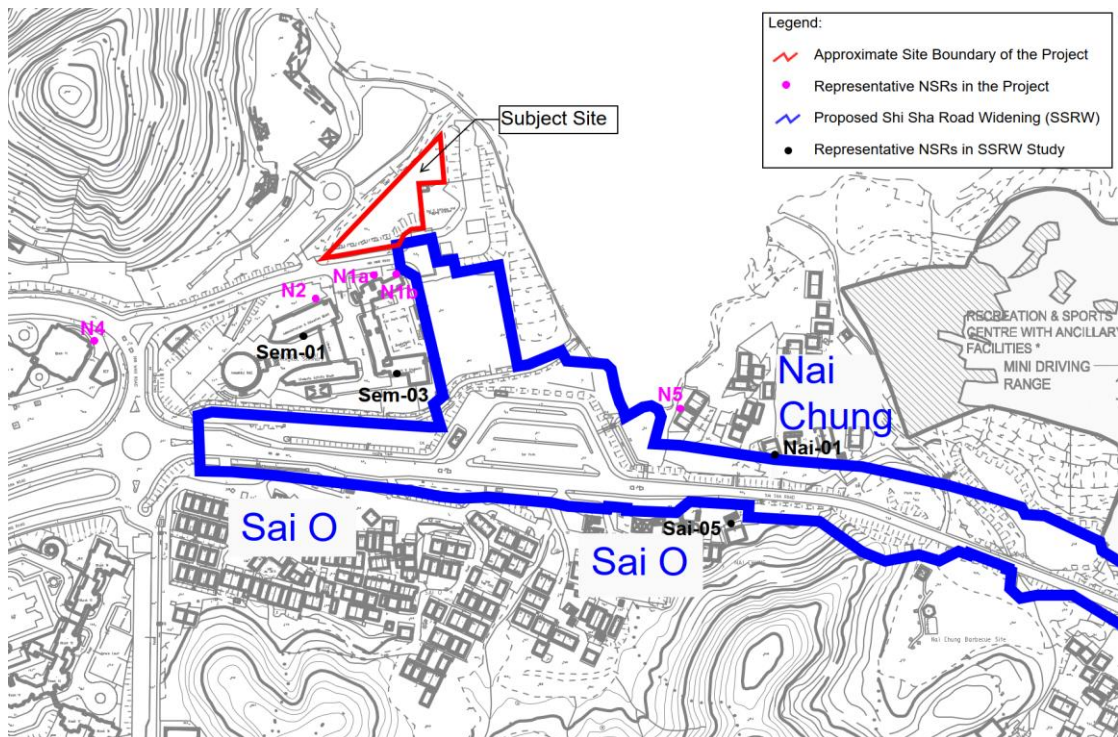
Appendix 4.10 Cumulative Construction Noise Impact

Concurrent works - Sai Sha Road Widening

According to latest information obtained, only Sai Sha Road Widening has potential of concurrent works with the Proposed Project. The tentative construction programme of the proposed Project is from Q4 2021 to Q2 2024, while the Sai Sha Road Widening was commenced in Feb 2018 and expected to be completed in Q4 2023. Therefore, construction activities "2.1 - Installation of drainage and utilities", "3.1 - Levelling", "3.2 - Formation of road sub-base" and "4.1 - Surfacing and finishing" would likely be concurrent with the Project. Provided construction program of Sai Sha Road Widening is extracted in below.



The extent of Sai Sha Road Widening near the Project Site is captured in below. The location of the Subject Site and Representative NSRs of the Project were sketched in the same figure for ease of reference.



For conservative assessment, it is assumed that construction works Tasks 3.1 and 3.2 of Sai Sha Road Widening as mentioned above would be concurrent with the proposed Project over the construction period. In view of uncertainties of notional points under the Sai Sha Road Widening, the predicted result for task "3.1 & 3.2" at assessment points Sem-01, Sem-03, Nai-01 and Sai-05 were directly adopted for calculating the cumulative construction noise impact considering the similar distance between the assessment points and works boundary as illustrated above.

Calculation of Cumulative Impact

Referring to **Appendix 4.6** and **Appendix 4.9**, the lowest assessed level is the worst case scenario, therefore, calculation of cumulative impact on middle level and highest level is considered not necessary.

NSR ID	Predicted Maximum Noise Level with Mitigation Measures, dB(A)		Cumulative Noise Level dB(A)	Noise Criteria dB(A)
	From the Project	From Sai Sha Road Widening		
N1a	70	59 (Sem-03)	70	75
N1b	72	69 (Nai-01)	74	75
N2	66	56 (Sem-01)	66	70 *
N2	65 (duration exam)	56 (Sem-01)	65	65 *
N4	56	56 (Sem-01)	59	75
N5	54	65 (Sai-05)	65	75

Remark:

* 70 dB(A) for normal school day; 65dB(A) during examination period.

As shown in above table, with considering cumulative impact from Sai Sha Road Widening, the predicted overall noise level would still comply with noise criteria for all representative NSRs.