

**Appendix 4.03 Construction Programme for Noise Calculations**

**Construction Programme**

Activity ID	Activity Name	2018												2019												2020												2021												2022											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
<b>RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS</b>																																																													
<b>Package 1 - Construction of Tunnels and Caverns for relocated STSTW</b>																																																													
<b>Access Road for Magazine at A Kung Kok Road</b>																																																													
<i>Construction of Temporary Haul Road</i>																																																													
M1010	Mobilisation and site clearance	■	■	■	■	■	■																																																						
M1020	Site Formation and Platform Erection for Works Area																																																												
M1030	Formation of Temporary Haul Road (incl temp slope works)																																																												
<i>Construction of Access Road</i>																																																													
M1040	Piling Foundation for Retaining Wall																																																												
M1050	Permanent Slope Works																																																												
M1060	Retaining Wall & Elevated Section																																																												
M1070	Soil Backfilling and Compaction																																																												
M1080	Permanent Access Road & Other Road Furniture																																																												
M1090	Remaining Works																																																												
<i>Construction of Explosive Compound Structure</i>																																																													
M1100	Site Formation & Construction of Explosive Compound Structure																																																												
M1110	E&M Installation for Explosive Compound Structure																																																												
<i>Inspection &amp; Approval</i>																																																													
M1120	Inspection and Approval by FSD, Mines & Other Authorities																																																												
<b>Main Access Tunnel</b>																																																													
<i>Natural Terrain Hazard Mitigation Works-1</i>																																																													
A1549	Mobilisation and site clearance	■	■	■	■	■	■																																																						
A1550	INTHS-Construction of Check Dam near East Portal																																																												
A1560	INTHS-Construction of Check Dam near West Portal																																																												
A1570	INTHS-Construction of Check Dam near Emergency Portal																																																												
A1580	Boulder Fall Fence Construction																																																												
<i>Temporary Road Construction</i>																																																													
A2100	Site Formation works in Area 73 (site office set-up, levelling, etc)	■	■	■	■	■	■																																																						
A2110	Temporary road construction																																																												
A2120	Temporary steel bridge across Ah Kwong Kok Street																																																												
<b>Pilot Construction Adit</b>																																																													
<i>Preparation Works</i>																																																													
A1010	Mobilisation and site clearance	■	■	■	■	■	■																																																						
A1230	GEO submission of temp. works design for tunnel excavation																																																												
<i>Site Formation Works of Portal</i>																																																													
A1020	Construction of Retaining Wall																																																												
A1030	Portal Slope Stabilisation Works																																																												
A1040	Excavation and Temporary Haul Road Construction to Adit Portal																																																												
A1050	Drainage provision and surface protection																																																												
<i>Excavation of Adit Tunnel</i>																																																													
A1060	Soft ground excavation for Pilot Construction Adit																																																												
A1061	Installation of Blasting Door and Mines Inspection																																																												
A1070	Hard ground excavation for Pilot Construction Adit																																																												
<b>Main Access Tunnel Portal (East)</b>																																																													
<i>Preparation Works</i>																																																													
A1080	Mobilisation and general site clearance	■	■	■	■	■	■																																																						
A1090	Diversion of existing utilities																																																												
<i>Site Formation Works of Portal (East)</i>																																																													
A1100	Excavation and slope cutting																																																												
A1110	Portal Slope Stabilisation Works																																																												
A1120	Tunnel Portal Formation & Soft ground excavation (East)(60m)																																																												
<i>Excavation of 16m wide Tunnel (East)</i>																																																													
A1540	Excavation of remaining part of Tunnel (30m)																																																												
A1541	Excavation of part of Tunnel near to 26m Tunnel (20m)																																																												
<b>Main Access Tunnel Portal (West)</b>																																																													
<i>Preparation Works</i>																																																													
A1130	Mobilisation, general site clearance and levelling	■	■	■	■	■	■																																																						
A1140	Diversion of existing utilities																																																												
A1150	Demolition of existing facility (Evangelical Lutheran Church of HK)																																																												
<i>Excavation of 16m wide Tunnel (West)</i>																																																													
A1620	Drill & Blast excavation works of 16m wide Tunnel (West) (50m)																																																												
<i>Site Formation Works of Portal (West)</i>																																																													
A1160	Erection of working platform for bored pile wall construction																																																												
A1170	Pre-drilling for bored pile wall																																																												
A1180	Bored Piling Works for Cantilever Retaining Wall																																																												
A1190	Testing for bored piles																																																												
A1191	Capping beam construction for Cantilever Retaining Wall																																																												
A1200	Excavation and slope cutting																																																												
A1210	Portal Slope Stabilisation works																																																												
A1201	Piling Works																																																												
A1220	Tunnel Portal Formation & Soft ground excavation (West)(25m)																																																												
<b>Main Access Tunnel (26m wide)</b>																																																													
<i>Excavation Works</i>																																																													
A1520	Drill and Blast excavation works of Primary Access Tunnel outside Caverns (320m long)																																																												



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A1620	Drill & Blast excavation works of 16m wide Tunnel (West) (50m)																																																																																		
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<b>Cavern Construction</b>																																																																																			
<i>Cavern Excavation (Drill &amp; Blast)</i>																																																																																			
A1630	Primary Access Tunnel Inside Cavern (183m long) before using Magazine																																																																																		
A1631	Remaining excavation of Primary Access Tunnel inside Cavern (192.5m) after using the Magazine																																																																																		
A1850	Excavation of Driveway and Secondary Access Tunnel																																																																																		
A1910	Excavation of Secondary Access Tunnel Outside Caverns (200m hard ground)																																																																																		
A1920	Excavation of Secondary Access Tunnel Outside Caverns (40m soft ground)																																																																																		
A1930	Remaining excavation in side caverns (20nos. of location, 200m long in total, 5 teams) by Drill & Blast																																																																																		
A1931	Manuvour and handling of C&D materials in Area 73																																																																																		
<i>Construction of Cavern Lining</i>																																																																																			
A1650	Lining Works for Caverns																																																																																		
A1670	Lining Works for tunnels and ventilation Adit																																																																																		
<i>Vent Shaft at A Kung Kok Shan</i>																																																																																			
A1358	Temporary works submission by the Contractor																																																																																		
A1360	Site Formation for Works Area																																																																																		
A1370	Construction of Guide wall																																																																																		
A1380	Setting up for construction of Diaphragm Wall																																																																																		
A1390	Construction of Diaphragm Wall																																																																																		
A1400	Testing of Diaphragm Wall																																																																																		
A1590	Excavation in Soft Ground (16m depth)																																																																																		
A1591	Setting up for Noise Enclosure																																																																																		
A1660	Excavation for Ventilation Adit by drill & blast method (540m)																																																																																		
A1661	Excavation in Rock Portion by drill & blast method (90m depth)																																																																																		
<b>Emergency Access Tunnel Portal</b>																																																																																			
<i>Preparation Works</i>																																																																																			
A1240	Mobilisation and general site clearance																																																																																		
<i>Construction Works</i>																																																																																			
A1260	Erection of working platform for bored pile wall construction																																																																																		
A1270	Pre-drilling for bored pile wall																																																																																		
A1280	Cantilever Retaining Wall																																																																																		
A1290	Testing for bored piles																																																																																		
A1300	Excavation and slope cutting																																																																																		
A1310	Soil backfilling and compaction																																																																																		
A1320	Portal Slope Stabilisation works																																																																																		
A1330	Tunnel Portal Formation at Mui Tsz Lam Portal																																																																																		
<b>Construction of effluent pipeline</b>																																																																																			
A1940	Condition survey and tunnel strengthening works for THEES tunnel*																																																																																		
A1940-1	Condition survey																																																																																		
A1940-2	Tunnel strengthening works																																																																																		
A1940-3	Tunnel strengthening works																																																																																		
A1946	Ground treatment works																																																																																		
A1941	Soft ground excavation																																																																																		
A1942	Mobilisation of plant and equipment on site																																																																																		
A1943	Set up of micro TBM																																																																																		
A1944	Micro TBM drive																																																																																		
A1945	Modification of existing inlet chamber and complete connection*																																																																																		
<b>Completion of Package 1</b>																																																																																			
A1680	Completion of Package 1																																																																																		
<b>Package 2 - Civil and E&amp;M Works and T&amp;C of relocated STSTW</b>																																																																																			
<i>E&amp;M Installation</i>																																																																																			
A1690	Construction of civil & builders works of relocated STSTW																																																																																		
A1710	Installation of E&M works inside caverns																																																																																		
A1720	Construction of transformer and plant control room at main access tunnel portal area																																																																																		
A1730	Construction of ventilation building at main access tunnel portal area																																																																																		
A1750	Laying of rising mains, effluent pipeline and emergency bypass pipeline																																																																																		
A1760	Proposed roadworks and landscaping																																																																																		
<b>Emergency Outfall Construction</b>																																																																																			
A1740	Mobilisation of plant and equipment on Site																																																																																		
A1770	Construction of jacking pit at Portal																																																																																		
A1771	Construction of 1st intermediate pit at Ma On Shan Road & MOS Rail																																																																																		
A1772	Construction of 2nd intermediate pit at Area 73																																																																																		
A1773	Construction of Receiving pit at existing STSTW																																																																																		
A1780	Set up of micro TBM (guide rail, jacking system, pumping system, entrance ring, etc)																																																																																		
A1781	Testing and commissioning of micro TBM and jacking system																																																																																		
A1790	Micro TBM driving - 1st (150m)																																																																																		
A1800	Micro TBM driving - 2nd (200m)																																																																																		
A1810	Micro TBM driving - 3rd (250m)																																																																																		
A1820	Removal of micro TBM																																																																																		
A1830	Pipe installation of remaining part and connection to existing submarine outfall																																																																																		
<b>Test &amp; Commissioning/Inspection &amp; Handover</b>																																																																																			
A1460	Testing of E&M equipments																																																																																		
T&C of process trains with sewage from SPSs																																																																																			
<b>Package 3 - Construction of Ancillary Facilities</b>																																																																																			
<i>Administration Buildings and other ancillary facilities construction</i>																																																																																			
A1430	Construction of Administration Buildings and other ancillary facilities																																																																																		
<b>Package 4 - Decommissioning and Demolition of Existing STSTW</b>																																																																																			
A1440	Decommissioning of existing STSTW																																																																																		
A1450	Demolition of existing STSTW																																																																																		
A1451	Demolition of existing STSTW																																																																																		
A1452	Demolition of existing STSTW																																																																																		
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# Locations of Construction Works Area

