

Appendix B

Construction Programme

TMCLKL Northern Connection Sub-sea Tunnel Section

Portion Handover Dates

N11A - Handover	0		15-Feb-19*
N11B - Handover	0		15-Feb-19*
N13Ji, Jii, Ki & Kii - Handover for E&M Contract scope	0		15-Feb-19*

North Approach Ramp

Portion N12 Section

NAR - N12 - Open Cut Section - Structure Start	0	04-Jun-18	
NAR - N12 - Open cut Section - Ramp Structure	84	04-Jun-18	11-Sep-18
NAR - N12 - Open Cut Excavation - Bay 2	12	20-Jun-18	04-Jul-18
NAR - N12 - Bay 2 Structure	36	06-Jul-18	16-Aug-18
NAR - Sheet Pile at bay 6 & 7	18	20-Jun-18	11-Jul-18
NAR - Dewatering well Installation (Bay 3 to 6)	36	12-Jul-18	22-Aug-18
NAR - Pumping Test (Bay 3 to 6)	12	23-Aug-18	05-Sep-18
NAR - Excavation & Strut Installtion (Bay 3 to 6)	36	06-Sep-18	20-Oct-18
NAR - Bay 3 - Base Slab + Retaining Wall	48	20-Sep-18	17-Nov-18
NAR - Bay 4 - Base Slab + Retaining Wall	72	06-Oct-18	02-Jan-19
NAR - Bay 5 - Base Slab + Retaining Wall	72	22-Oct-18	16-Jan-19

Access Ramp Section

NLS Temp Access Ramp - Closure	0		04-Jun-18
NLS Temp Access Ramp - Concrete Block & Backfill	18	04-Jun-18	25-Jun-18
Pre-drilling - 4 G.I.	12	26-Jun-18	10-Jul-18
Pre-bored H-piles - 12p	36	11-Jul-18	21-Aug-18
Pre-bored H-piles - Pile Load Test	36	22-Aug-18	04-Oct-18
Pipe Pile Wall - Access Ramp Section	36	11-Jul-18	21-Aug-18
Pipe Pile Wall - TAM Grouting	36	22-Aug-18	04-Oct-18
Pump wells	35	05-Oct-18	15-Nov-18
Pump Test	12	16-Nov-18	29-Nov-18
Pipe Pile Wall Section - Excavation Start	0	30-Nov-18	
Excavation to S1 - 7,200 m3	12	30-Nov-18	13-Dec-18
Strut & Waling Installtaion - S1 - 7 struts	14	07-Dec-18	22-Dec-18
Excavation to S2 - 9,650 m3	16	14-Dec-18	04-Jan-19
Strut & Waling Installtaion - S2 - 7 struts	15	24-Dec-18	12-Jan-19
Excavation to FEL - 7,600 m3	14	05-Jan-19	21-Jan-19
NAR Pipe Pile Section - Base Slab	48	22-Jan-19	25-Mar-19
NAR Pipe Pile Section - Strut S2 Removal	24	12-Mar-19	09-Apr-19
NAR Pipe Pile Section - Wall up to S1	48	26-Mar-19	27-May-19

NLS Interface (OAP-NAR-DWG-10442-B)

NLS Cell 3 Dwall removal (down to +2.5mPD) - 90m3	15	14-Dec-18	03-Jan-19
Strut Installation and Excavation down to S2	12	04-Jan-19	17-Jan-19
NLS Cell 3 Dwall removal (down to -3.0mPD) - 188m3	18	18-Jan-19	14-Feb-19
Strut Installation and Excavation down to FWL	12	15-Feb-19	28-Feb-19
NLS Cell 3 Dwall removal (down to -6.0mPD) - 134m3	18	01-Mar-19	21-Mar-19
NLS/NAR Stitich structure - Base Slab & S2 removed	36	19-Mar-19	04-May-19

North Ventilation Building

North Vent Bldg - Roof Steel Structure	48	04-Jun-18	31-Jul-18
--	----	-----------	-----------

North Launching Shaft

NLS Cell 1 False Tunnel

ML03 Cell 1 - Alimak Removal	15	06-Jun-18	23-Jun-18
------------------------------	----	-----------	-----------

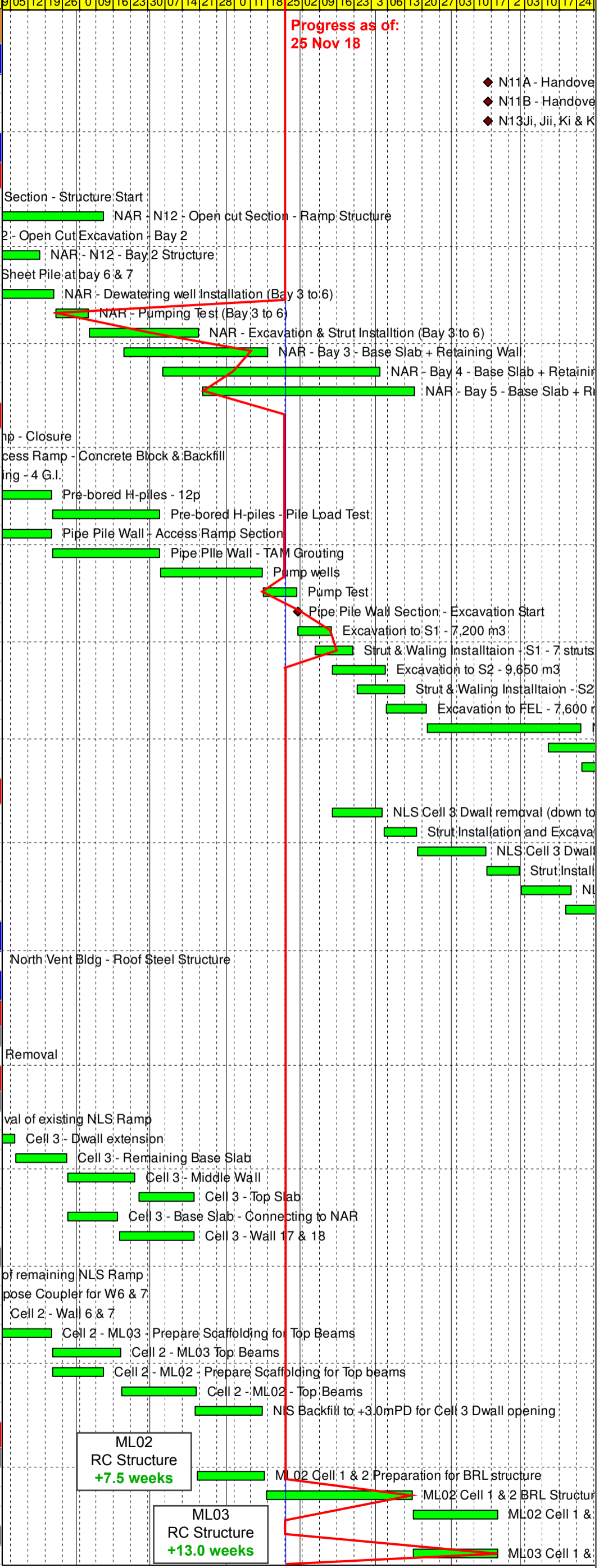
NLS Cell 1-3 Structure for Cell 3 Dwall opening

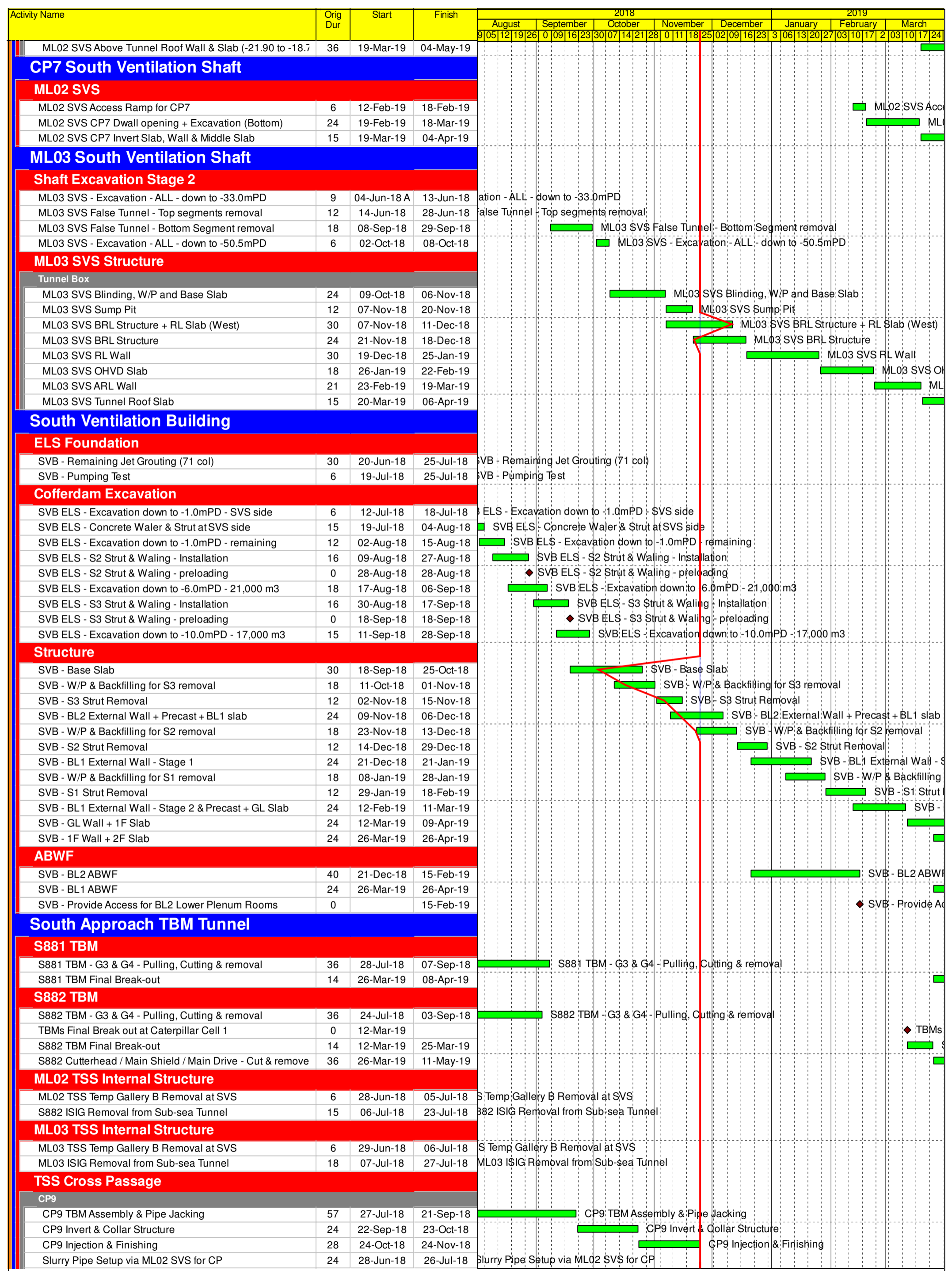
Cell 3 - Removal of existing NLS Ramp	18	04-Jun-18	25-Jun-18
Cell 3 - Dwall extension	35	26-Jun-18	06-Aug-18
Cell 3 - Remaining Base Slab	18	07-Aug-18	27-Aug-18
Cell 3 - Middle Wall	24	28-Aug-18	24-Sep-18
Cell 3 - Top Slab	18	26-Sep-18	18-Oct-18
Cell 3 - Base Slab - Connecting to NAR	18	28-Aug-18	17-Sep-18
Cell 3 - Wall 17 & 18	24	18-Sep-18	18-Oct-18

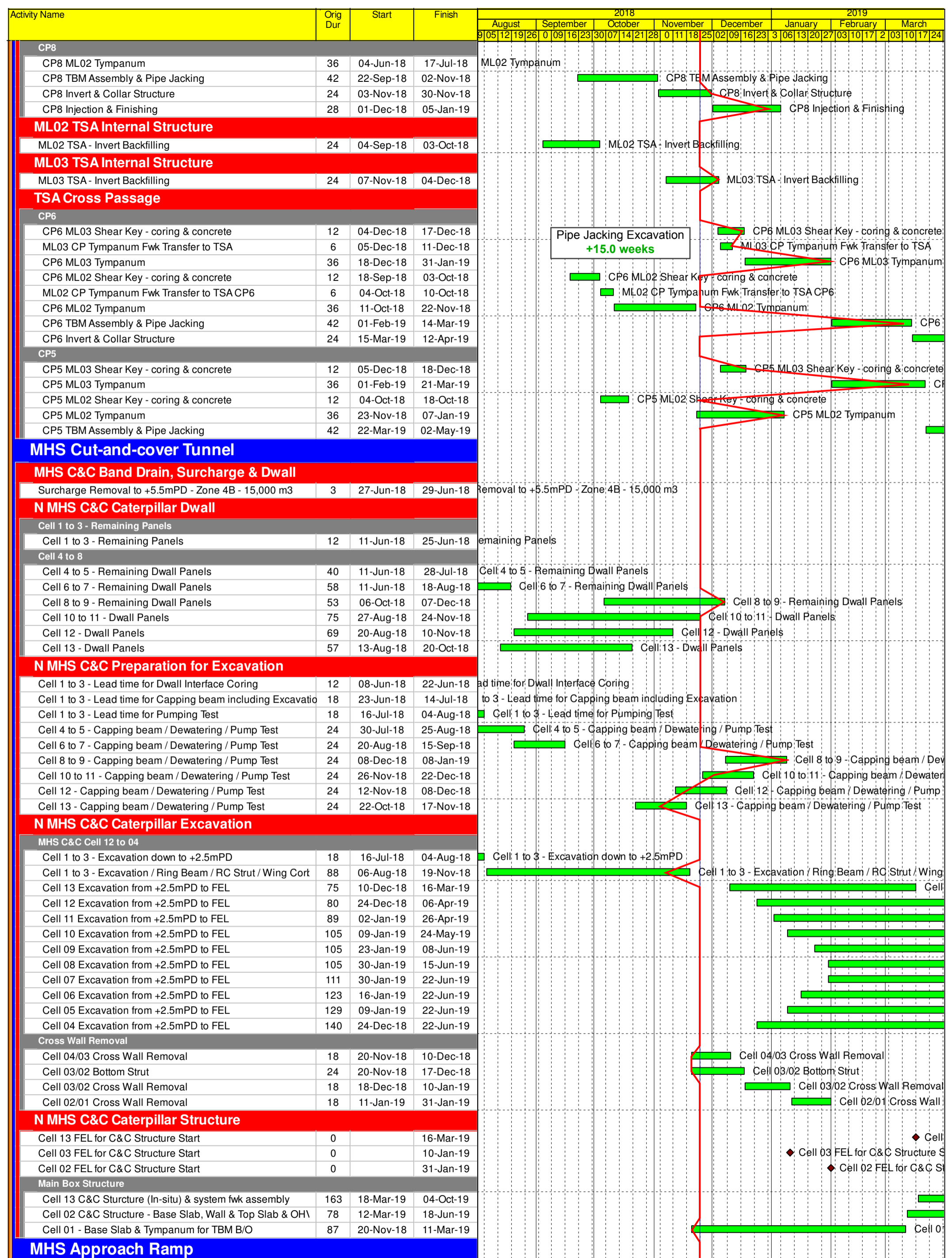
Cell 2 - Removal of remaining NLS Ramp	12	04-Jun-18	16-Jun-18
Cell 2 - Expose Coupler for W6 & 7	12	19-Jun-18	03-Jul-18
Cell 2 - Wall 6 & 7	24	04-Jul-18	31-Jul-18
Cell 2 - ML03 - Prepare Scaffolding for Top Beams	18	01-Aug-18	21-Aug-18
Cell 2 - ML03 Top Beams	24	22-Aug-18	18-Sep-18
Cell 2 - ML02 - Prepare Scaffolding for Top beams	18	22-Aug-18	11-Sep-18
Cell 2 - ML02 - Top Beams	24	19-Sep-18	19-Oct-18
NIS Backfill to +3.0mPD for Cell 3 Dwall opening	24	19-Oct-18	15-Nov-18

NLS Cell 1-3 Remaining Structure

ML02 Cell 1 & 2 Preparation for BRL structure	24	20-Oct-18	16-Nov-18
ML02 Cell 1 & 2 BRL Structure	48	17-Nov-18	15-Jan-19
ML02 Cell 1 & 2 OHVD Slab	24	16-Jan-19	19-Feb-19
ML03 Cell 1 & 2 Preparation for BRL structure	24	16-Jan-19	19-Feb-19







Activity Name	Orig Dur	Start	Finish	2018												2019																						
				August			September			October			November			December			January			February			March													
				9	16	23	30	06	13	20	27	03	10	17	24	31	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	31
Band Drain & Surcharge																																						
Surcharge Removal to +5.5mPD - Zone 3 - 30,000 m3	15	08-Jun-18	26-Jun-18	Removal to +5.5mPD - Zone 3 - 30,000 m3																																		
MHS Ramp Dwall, Treatment & King Post																																						
Caterpillar Cell 14 to 15 - Dwall Panels	75	04-Jul-18	29-Sep-18	Caterpillar Cell 14 to 15 - Dwall Panels																																		
SAR Straight Wall - Dwall Panels	66	08-Jun-18	25-Aug-18	SAR Straight Wall - Dwall Panels																																		
SAR Open Cut - Sheet Pile Installation	48	08-Jun-18	04-Aug-18	SAR Open Cut - Sheet Pile Installation																																		
SAR Open Cut - Dewatering Well - along sheet piles	36	30-Jun-18	11-Aug-18	SAR Open Cut - Dewatering Well - along sheet piles																																		
SAR Open Cut - Dewatering Well - along Dwall	15	13-Aug-18	29-Aug-18	SAR Open Cut - Dewatering Well - along Dwall																																		
SAR Open Cut - Pump Test	12	30-Aug-18	12-Sep-18	SAR Open Cut - Pump Test																																		
SAR Open Cut ELS - King Post Installation	18	06-Aug-18	25-Aug-18	SAR Open Cut ELS - King Post Installation																																		
MHS Approach Ramp Excavation																																						
SAR Open Cut Excavation - Above +2.5mPD	12	30-Aug-18	12-Sep-18	SAR Open Cut Excavation - Above +2.5mPD																																		
SAR Open Cut Excavation - strut free section	36	13-Sep-18	27-Oct-18	SAR Open Cut Excavation - strut free section																																		
SAR Open Cut Excavation - 1 strut section	36	13-Oct-18	24-Nov-18	SAR Open Cut Excavation - 1 strut section																																		
SAR Open Cut Excavation - 3 strut section	36	05-Nov-18	15-Dec-18	SAR Open Cut Excavation - 3 strut section																																		
MHS Caterpillar Cell 15/14 - Capping Beam / Pump test lead	24	02-Oct-18	30-Oct-18	MHS Caterpillar Cell 15/14 - Capping Beam / Pump test lead																																		
MHS Caterpillar Cell 15 Excavation	57	19-Nov-18	26-Jan-19	MHS Caterpillar Cell 15 Excavation																																		
MHS Caterpillar Cell 14 Excavation	75	10-Dec-18	16-Mar-19	MHS Caterpillar Cell 14 Excavation																																		
MHS Approach Ramp Structure																																						
SAR Structure - Base Slab - strut free section	60	13-Sep-18	24-Nov-18	SAR Structure - Base Slab - strut free section																																		
SAR Structure - Retaining Wall - strut free section	66	13-Oct-18	02-Jan-19	SAR Structure - Retaining Wall - strut free section																																		
SAR Structure - Base Slab - strut section	51	12-Nov-18	12-Jan-19	SAR Structure - Base Slab - strut section																																		
SAR Structure - Retaining Wall - strut section	92	10-Dec-18	06-Apr-19	SAR Structure - Retaining Wall - strut section																																		
SAR Structure - Base Slab - Cell 15	36	28-Jan-19	16-Mar-19	SAR Structure - Base Slab - Cell 15																																		
SAR Structure - Retaining Wall - Cell 15	66	04-Mar-19	25-May-19	SAR Structure - Retaining Wall - Cell 15																																		
SAR Structure - Base Slab - Cell 14	24	18-Mar-19	15-Apr-19	SAR Structure - Base Slab - Cell 14																																		
VO73 SCB Foundation & Substructure																																						
Foundation																																						
SCB Foundation - Predrilling & Toe level confirmation	30	08-Jun-18	14-Jul-18	Foundation - Predrilling & Toe level confirmation																																		
SCB Foundation - Barrettes - within SAR cofferdam	24	16-Jul-18	11-Aug-18	SCB Foundation - Barrettes - within SAR cofferdam																																		
SCB Foundation - Barrettes - outside SAR cofferdam	24	13-Aug-18	08-Sep-18	SCB Foundation - Barrettes - outside SAR cofferdam																																		
SCB Foundation - Verification Coring - within SAR cofferdam	27	13-Aug-18	12-Sep-18	SCB Foundation - Verification Coring - within SAR cofferdam																																		
SCB Foundation - Verification Coring - outside SAR cofferdam	27	10-Sep-18	12-Oct-18	SCB Foundation - Verification Coring - outside SAR cofferdam																																		
SAR ELS Backfilling - SCB Pile Cap Location	8	03-Jan-19	11-Jan-19	SAR ELS Backfilling - SCB Pile Cap Location																																		
SCB Pile Cap Structure	24	12-Jan-19	15-Feb-19	SCB Pile Cap Structure																																		
SAR ELS Backfilling - Portion N13K,J	14	24-Jan-19	15-Feb-19	SAR ELS Backfilling - Portion N13K,J																																		
Portion N11A,B, N13K,J - Handover	0		15-Feb-19	◆ Portion N11A,B, N13K,J - Handover																																		
Southern Landfall - Surface																																						
HKBCF Seawall Modification (schedule TBC)																																						
HKBCF Vertical Seawall - place Rock underlayer bottom	9	01-Aug-18*	10-Aug-18	HKBCF Vertical Seawall - place Rock underlayer bottom																																		
Pause Period (to be verified on site)	90	11-Aug-18	08-Nov-18	Pause Period (to be verified on site)																																		
HKBCF Vertical Seawall - place Rock Grade 400	15	09-Nov-18	26-Nov-18	HKBCF Vertical Seawall - place Rock Grade 400																																		
Pause Period (to be verified on site)	90	27-Nov-18	24-Feb-19	Pause Period (to be verified on site)																																		
HKBCF Vertical Seawall - place Rock underlayer upper	9	25-Feb-19	06-Mar-19	HKBCF Vertical Seawall - place Rock underlayer upper																																		
HKBCF Vertical Seawall - place Armour Rock	31	07-Mar-19	12-Apr-19	HKBCF Vertical Seawall - place Armour Rock																																		
UU / At-grade works																																						
Demobilization of Dwall site setup	78	08-Dec-18	19-Mar-19	Demobilization of Dwall site setup																																		
Drainage & Watermain - SLF	216	20-Mar-19	09-Dec-19	Drainage & Watermain - SLF																																		