

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

1. General

(beginning of month - end of month)
May 16 - Jul 16

1.1 Site Clearance

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Lorry	CNP 141	2	112	65%	0	113
Dump Truck	CNP 067	2	117	65%	0	118
Total SWL						120

2. Lam Tin Side

2.1 Lam Tin Interchange

2.1.1 Conveyor belt

Feb 16 - Apr 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Welding Set	CNP107	1	99	100%	0	99
Mobile Crane	CNP 048	1	112	30%	0	107
Lorry	CNP 141	1	112	65%	0	110
Compressor	CNP 003	1	104	100%	0	104
Bar Bender	CNP 021	1	90	100%	0	90
Concrete mixer truck	CNP 044	1	109	100%	0	109
Vibratory poker	CNP 170	1	113	100%	0	113
Total SWL						118

2.1.1b Operation of Conveyor belt

Feb 16 - Apr 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Conveyor belts	CNP 041	1	90	100%	0	90
Total SWL						90

2.1.2 Barging point construction

Feb 16 - Apr 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Welding Set	CNP107	1	99	100%	0	99
Mobile Crane	CNP 048	1	112	30%	0	107
Lorry	CNP 141	1	112	65%	0	110
Compressor	CNP 003	1	104	100%	0	104
Bar Bender	CNP 021	1	90	100%	0	90
Concrete mixer truck	CNP 044	1	109	100%	0	109
Vibratory poker	CNP 170	1	113	100%	0	113
Total SWL						118

2.1.2b Operation of Barging Point

Feb 16 - Apr 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Conveyor belts	CNP 041	1	90	100%	0	90
Barge	CNP 061	1	104	100%	0	104
Total SWL						104

2.1.3 Topsoil Excavation

May 16 - Oct 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Lorry	CNP 141	2	112	65%	0	113
Dump Truck	CNP 067	2	117	65%	0	118
Total SWL						120

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

2.1.4 Surface Blasting at LTI & CKL Tunnel Portal

Group A

Oct 16 - Mar 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	1	112	65%	0	110
Mobile Crane	CNP 048	1	112	30%	0	107
Hydraulic breaker	CNP 028	2	122	80%	0	124
Dump Truck	CNP 067	4	117	65%	0	121
Generator, Silenced	CNP 102	2	100	100%	0	103
Welding Set	CNP107	2	99	100%	0	102
Drilling Rig	BS D11/1	3	117	100%	0	122
Air Compressor	CNP 003	3	104	100%	0	109
Water Pump	CNP 281	2	88	100%	0	91
Mobile Crusher	EIA Ref.	2	118	100%	0	121
Water Truck	BS C6/37	1	106	100%	0	106
Cherry Picker	BS C4/54	1	104	100%	0	104
Total SWL						128

Group B

Oct 16 - Mar 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	6	112	65%	0	118
Lorry	CNP 141	1	112	65%	0	110
Mobile Crane	CNP 048	1	112	30%	0	107
Dump Truck	CNP 067	4	117	65%	0	121
Generator, Silenced	CNP 102	2	100	100%	0	103
Water Pump	CNP 281	2	88	100%	0	91
Mobile Crusher	EIA Ref.	2	118	100%	0	121
Water Truck	BS C6/37	1	106	100%	0	106
Cherry Picker	BS C4/54	1	104	100%	0	104
Total SWL						125
Maximum SWL Group A-B						128

2.1.5 Site Formation at LTI

Jan 18 - Sep 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Dump Truck	CNP 067	1	117	65%	0	115
Lorry	CNP 141	1	112	65%	0	110
Air Compressor	CNP 003	1	104	100%	0	104
Generator, Silenced	CNP 102	2	100	100%	0	103
Drilling Rig	BS D11/1	1	117	100%	0	117
Grout Mixer and Pump	BS D6/13	1	108	100%	0	108
Reverse-circulation drill	CNP 166	1	100	100%	0	100
Concrete mixer truck	CNP 044	1	109	100%	0	109
Total SWL						121

2.1.6 Foundation Piers of Bridge Construction

Sep 17 - Jun 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Lorry Mixer	CNP 044	3	109	50%	0	111
Dump Truck	CNP 067	3	117	30%	0	117
Backhoe	CNP 081	3	112	70%	0	115
Generator, Silenced	CNP 102	3	100	100%	0	105
Crane	CNP 048	3	112	50%	0	114
Poker, vibratory, hand-held	CNP 170	9	113	50%	0	120
Saw, circular, wood	CNP 201	3	108	50%	0	110
Bar bender and cutter (electric)	CNP 021	3	90	50%	0	92
Pneumatic Breaker	CNP 027	3	122	50%	0	124
Total SWL						127

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

2.1.7 Bridge Deck Construction

Jan 18 - Dec 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane	CNP 048	4	112	30%	0	113
Lorry	CNP 141	4	112	30%	0	113
Generator, Silenced	CNP 102	4	100	100%	0	106
Cutter, circular, steel (electric)	CNP 056	3	112	50%	0	114
Drill, percussive, hand-held (electric)	CNP 064	4	103	50%	0	106
Bar bender and cutter (electric)	CNP 021	4	90	50%	0	93
Concrete lorry mixer	CNP 044	4	109	50%	0	112
Concrete Pump	CNP 047	4	109	50%	0	112
Poker, vibratory, hand-held	CNP 170	4	113	50%	0	116
Total SWL						122

2.1.8 Roadworks, Signage & Noise Barriers Installation

Jun 18 - Jun 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	2	117	50%	0	117
Asphalt Paver	CNP 004	2	109	100%	0	112
Roller, vibratory	CNP 186	2	108	100%	0	111
Generator, Silenced	CNP 102	2	100	100%	0	103
Paint line marker	CNP 161	2	90	80%	0	92
Lorry	CNP 141	2	112	100%	0	115
Crane	CNP 048	2	112	100%	0	115
Total SWL						122

2.1.9 Translucent Noise Cover

2.1.9.1 Footing

Sep 18 - Jun 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	1	109	50%	0	106
Dump Truck	CNP 067	1	117	30%	0	112
Backhoe	CNP 081	1	112	70%	0	110
Generator, Silenced	CNP 102	1	100	100%	0	100
Crane	CNP 048	1	112	50%	0	109
Poker, vibratory, hand-held	CNP 170	3	113	50%	0	115
Saw, circular, wood	CNP 201	1	108	50%	0	105
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	87
Pneumatic Breaker	CNP 027	1	122	50%	0	119
Total SWL						122

2.1.9.2 Noise Cover

Dec18 - Aug 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	2	112	100%	0	115
Crane	CNP 048	2	112	100%	0	115
Total SWL						118

2.1.10 Landscape Works for Slope

Jun 20 - Nov 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Total SWL						115

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

2.1.11 Construction of Landscape deck

2.1.11.1 Footing and retaining structure at central divider

Jun 19 - Mar 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	2	109	70%	0	110
Dump Truck	CNP 067	2	117	45%	0	117
Backhoe	CNP 081	2	112	80%	0	114
Generator, Silenced	CNP 102	2	100	80%	0	102
Crane	CNP 048	2	112	80%	0	114
Poker, vibratory, hand-held	CNP 170	6	113	80%	0	120
Saw, circular, wood	CNP 201	2	108	80%	0	110
Bar bender and cutter (electric)	CNP 021	2	90	45%	0	90
Ventilation Fans	CNP 241	2	108	50%	0	108
Pneumatic Breaker	CNP 027	2	122	60%	0	123
Total SWL						126

2.1.11.2 Civil works for landscape deck

Sep 19 - May 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	2	109	70%	0	110
Dump Truck	CNP 067	2	117	45%	0	117
Backhoe	CNP 081	2	112	80%	0	114
Generator, Silenced	CNP 102	2	100	80%	0	102
Crane	CNP 048	2	112	80%	0	114
Poker, vibratory, hand-held	CNP 170	6	113	80%	0	120
Saw, circular, wood	CNP 201	2	108	80%	0	110
Bar bender and cutter (electric)	CNP 021	2	90	45%	0	90
Pneumatic Breaker	CNP 027	2	122	60%	0	123
Lorry	CNP 141	2	112	80%	0	114
Drill, percussive, hand-held (electric)	CNP 064	2	103	45%	0	103
Concrete Pump	CNP 047	2	109	100%	0	112
Total SWL						127

2.1.11.3 Landscape works

May 20 - Aug 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Total SWL						115

2.1.12 Construction of Admin Bldg, Vent Bldg & Tunnel Facilities

Sep 17 - Mar 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Lorry	CNP 141	2	112	65%	0	113
Dump Truck	CNP 067	2	117	65%	0	118
Mobile Crane	CNP 048	5	112	30%	0	114
Compressor	CNP 003	2	104	100%	0	107
Bar Bender	CNP 021	2	90	100%	0	93
Concrete mixer truck	CNP 044	2	109	100%	0	112
Vibratory poker	CNP 170	3	113	100%	0	118
Piling, large diameter bored, grab and chisel	CNP 164	3	115	30%	0	115
Piling, large diameter bored, oscillator	CNP 165	3	115	30%	0	115
Piling, large diameter bored, reverse circulation drill	CNP 166	3	100	30%	0	100
Total SWL						124

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

2.1.13 Blasting for Slip Roads S2, S3, EHC 4

Sep 17 - Jul 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	2	112	65%	0	113
Dump Truck	CNP 067	2	117	65%	0	118
Mobile Crane	CNP 048	1	112	30%	0	107
Conveyor Belts	CNP 041	1	90	100%	0	90
Ventilation Fans	CNP 241	3	108	100%	0	113
Total SWL						120

2.1.14 Cover & Cut Slip Road and At-grade Road Construction

Jul 18 - Apr 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	30%	0	108
Bulldozer	CNP 030	1	115	30%	0	110
Lorry	CNP 141	1	112	20%	0	105
Hydraulic Breaker	CNP 028	1	122	80%	0	121
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	1	113	30%	0	108
Bar Bender	CNP 021	1	90	100%	0	90
Excavator	CNP 081	1	112	65%	0	110
Dump Truck	CNP 067	1	117	65%	0	115
Mobile Crane	CNP 048	1	112	50%	0	109
Total SWL						123

2.1.14b Cover & Cut Slip Road and At-grade Road Construction (for work sites 113c&d)

Jul 18 - Apr 19

Group A

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	1	112	20%	0	105
Hydraulic Breaker	CNP 028	1	122	80%	0	121
Excavator	CNP 081	1	110	65%	0	108
Total SWL						121

Group B

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	1	113	30%	0	108
Bar Bender	CNP 021	1	90	100%	0	90
Mobile Crane	CNP 048	1	112	50%	0	109
Total SWL						112
Maximum SWL Group A-B						121

2.1.15 Roadworks & Signage

Oct 18 - Jan 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	30%	0	108
Bulldozer	CNP 030	1	115	30%	0	110
Lorry	CNP 141	1	112	50%	0	109
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	1	113	30%	0	108
Mobile Crane	CNP 048	1	112	50%	0	109
Total SWL						116

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

2.1.16 Drainage, E&M works

Oct 18 - Jan 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Lorry	CNP 141	1	112	20%	0	105
Mobile Crane	CNP 048	1	112	30%	0	107
Total SWL						113

3.Main Tunnel (TKO Side)

3.1.1 Site Formation & Slope Stabilization Works

May 16 - Dec 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	3	112	65%	0	115
Truck	CNP 141	3	112	100%	0	117
Lorry	CNP 141	2	112	65%	0	113
Air Compressor	CNP 003	2	104	100%	0	107
Generator, Silenced	CNP 102	2	100	100%	0	103
Drilling Rig	BS D11/1	3	117	100%	0	122
Grout Mixer and Pump	BS D6/13	2	108	100%	0	111
Total SWL						124

3.1.2 Barging point construction

Feb 16 - Apr 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Welding Set	CNP107	2	99	100%	0	102
Mobile Crane	CNP 048	2	112	30%	0	110
Lorry	CNP 141	2	112	65%	0	113
Compressor	CNP 003	2	104	100%	0	107
Bar Bender	CNP 021	2	90	100%	0	93
Concrete mixer truck	CNP 044	2	109	100%	0	112
Vibratory poker	CNP 170	2	113	100%	0	116
Barge	CNP 061	1	104	100%	0	104
Total SWL						121

3.1.3 Surface Blasting for TKO Portal

Dec 16 - Jul 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	4	112	65%	0	116
Lorry	CNP 141	4	112	65%	0	116
Mobile Crane	CNP 048	1	112	30%	0	107
Hydraulic Breaker	CNP 028	1	122	80%	0	121
Dump Truck	CNP 067	5	117	65%	0	122
Generator, Silenced	CNP 102	2	100	100%	0	103
Welding Set	CNP107	2	99	100%	0	102
Drilling Rig	BS D11/1	3	117	100%	0	122
Air Compressor	CNP 003	2	104	100%	0	107
Water Pump	CNP 281	1	88	100%	0	88
Mobile Crusher	EIA Ref.	1	118	100%	0	118
Water Truck	BS C6/37	1	106	100%	0	106
Cherry Picker	BS C4/54	2	104	100%	0	107
Total SWL						128

3.1.4 Diversion of JBCPC Footpath

May 16 - Nov 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Truck	CNP 141	2	112	100%	0	115
Compactor	CNP 050	1	105	100%	0	105
Roller	CNP 186	1	108	100%	0	108
Bar Bender	CNP 021	2	90	100%	0	93
Concrete mixer truck	CNP 044	2	109	100%	0	112
Vibratory poker	CNP 170	3	113	100%	0	118
Mobile Crane	CNP 048	1	112	30%	0	107
Grader	CNP 104	2	113	50%	0	113
Total SWL						122

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario:

Unmitigated ▼

Contract 1: contribution of Main Tunnel, Branch Tunnel, Lam Tin Interchange & CKL Tunnel

3.1.5 Demolition of Existing JBCPC Footpath

Nov 16 - Feb 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bulldozer	CNP 030	2	115	100%	0	118
Lorry	CNP 141	2	112	65%	0	113
Mobile Crane	CNP 048	2	112	30%	0	110
Hydraulic breaker	CNP 028	1	122	80%	0	121
Dump Truck	CNP 067	2	117	65%	0	118
Total SWL						125

3.1.6 Ventilation Bldg Construction

May 19 - May 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Lorry	CNP 141	2	112	65%	0	113
Dump Truck	CNP 067	2	117	65%	0	118
Mobile Crane	CNP 048	5	112	30%	0	114
Compressor	CNP 003	2	104	100%	0	107
Bar Bender	CNP 021	2	90	100%	0	93
Concrete mixer truck	CNP 044	2	109	100%	0	112
Vibratory poker	CNP 170	3	113	100%	0	118
Piling, large diameter bored, grab and chisel	CNP 164	3	115	30%	0	115
Piling, large diameter bored, oscillator	CNP 165	3	115	30%	0	115
Piling, large diameter bored, reverse circulation drill	CNP 166	3	100	30%	0	100
Total SWL						124

3.1.7 Landscape Works

May 20 - Nov 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Total SWL						115

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

(beginning of month - end of month)
May 16 - Aug 16

1. Reclamation for Depressed Road

1.1 Placing Geotextile

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	100%	0	110
Barge	CNP 061	1	104	100%	0	104
Total SWL						111

1.2 Placing Stone Blanket

Aug 16 - Sep 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	100%	0	110
Barge	CNP 061	2	104	100%	0	107
Total SWL						112

1.3 Installation of Stone Column

Sep 16 - May 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Vibrolance	BS D4/104b	1	117	50%	0	114
Barge	CNP 061	2	104	100%	0	107
Excavator	CNP 081	1	112	100%	0	112
Total SWL						117

1.4 Installation of Cellular Caisson

May 17 - Jul 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	100%	0	110
Barge	CNP 061	2	104	100%	0	107
Total SWL						112

1.5 Placing Geotextile Separator

Jul 17 - Sep 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	100%	0	110
Barge	CNP 061	1	104	100%	0	104
Total SWL						111

1.6 Placing Sand Drainage Blanket

Sep 17 - Oct 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	100%	0	110
Barge	CNP 061	2	104	100%	0	107
Total SWL						112

1.7 Installing Vertical Band Drains

Oct 17 - Feb 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Hydraulic Vibratory Lance	BS D4/107c	1	115	50%	0	111.9897
Total SWL						112

1.8 Construction of Seawall

Feb 18 - May 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Tug Boat	CNP 221	1	110	30%	0	105
Derrick Barge	CNP 061	1	104	30%	0	99
Total SWL						106

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

1.9.1 Reclamation Fill behind Seawall

May 18 - Aug 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Barge	CNP 061	3	104	100%	0	109
Total SWL						109

1.9.2 Reclamation Fill behind Seawall

May 18 - Aug 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	2	112	100%	0	115
Bulldozer	CNP 030	2	115	100%	0	118
Mechanical Compactors	CNP 050	2	105	50%	0	105
Total SWL						120

1.10 Placing Surcharge

Sep 18 - Mar 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	50%	0	110
Excavator	CNP 081	1	112	65%	0	110
Dump Truck	CNP 067	2	117	50%	0	117
Total SWL						118

1.11 Removal of Surcharge

Mar 20 - Jun 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	50%	0	110
Excavator	CNP 081	1	112	65%	0	110
Dump Truck	CNP 067	2	117	65%	0	118
Total SWL						119

1.12 Landscape Deck Construction

Group A

Aug 18 - Aug 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	2	112	65%	0	113
Dump Truck	CNP 067	1	117	65%	0	115
Compressor	CNP 003	3	104	100%	0	109
Total SWL						118

Group B

Aug 18 - Aug 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	30%	0	112
Compressor	CNP 003	3	104	50%	0	106
Bar Bender	CNP 021	2	90	50%	0	90
Concrete Pump	CNP 047	3	109	50%	0	111
Concrete mixer truck	CNP 044	3	109	50%	0	111
Vibratory poker	CNP 170	6	113	50%	0	118
Total SWL						120

Group C

Aug 18 - Aug 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	50%	0	110
Bulldozer	CNP 030	1	115	100%	0	115
Roller	CNP 186	2	108	100%	0	111
Total SWL						117
Maximum SWL Group A-C						120

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

1.13 Footpath, cycle track and landscape works

May 20 - Oct 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	50%	0	106
Roller, vibratory	CNP 186	1	108	50%	0	105
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	50%	0	87
Total SWL						115

2. Bridge Structure for TKO Interchange

2.1 Slip Road S300 + S400

2.1.1 Sea Piling Works, Pile Cap & Piers

May 16 - Aug 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	50%	0	99
Concrete lorry mixer	CNP 044	1	109	50%	0	106
Crane	CNP 048	1	112	50%	0	109
Derrick barge	CNP 061	1	104	50%	0	101
Piling, vibration hammer	CNP 172	1	115	50%	0	112
Poker, vibratory, hand-held	CNP 170	2	113	50%	0	113
Generator, Silenced	CNP 102	1	100	50%	0	97
Water pump	CNP 281	1	88	50%	0	85
Dump Truck	CNP 067	1	117	50%	0	114
Backhoe	CNP 081	1	112	50%	0	109
Saw, circular, wood	CNP 201	1	108	50%	0	105
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	87
Chisel	CNP 164	1	115	50%	0	112
Piling, large diameter bored, oscillator	CNP 165	1	115	50%	0	112
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	50%	0	97
Pneumatic Breaker	CNP 027	1	122	50%	0	119
Total SWL						123

2.1.2 Bridge Deck Construction for S400

Jul 16 - Sep 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	1	113	65%	0	111
Total SWL						116

2.1.3 Roadworks, Drainage, Utilities for S400

Sep 18 - Jan 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

2.1.4 Bridge Deck Construction for S300

Dec 16 - Dec 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	2	113	65%	0	114
Total SWL						117

2.1.5 Roadworks, Drainage, Utilities for S300

Jul 20 - Oct 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

2.2 Slip Road S100 + S200 (Start from CBL side)

2.2.1 Sea Piling Works, Pile Cap & Piers

May 16 - Jan 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	50%	0	99
Concrete lorry mixer	CNP 044	1	109	50%	0	106
Crane	CNP 048	1	112	50%	0	109
Derrick barge	CNP 061	1	104	50%	0	101
Piling, vibration hammer	CNP 172	1	115	50%	0	112
Poker, vibratory, hand-held	CNP 170	2	113	50%	0	113
Generator, Silenced	CNP 102	1	100	50%	0	97
Water pump	CNP 281	1	88	50%	0	85
Dump Truck	CNP 067	1	117	50%	0	114
Backhoe	CNP 081	1	112	50%	0	109
Saw, circular, wood	CNP 201	1	108	50%	0	105
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	87
Chisel	CNP 164	1	115	50%	0	112
Piling, large diameter bored, oscillator	CNP 165	1	115	50%	0	112
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	50%	0	97
Pneumatic Breaker	CNP 027	1	122	50%	0	119
Total SWL						123

2.2.2 Bridge Deck Construction for S100

Jul 16 - Apr 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	1	113	65%	0	111
Total SWL						116

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

2.2.3 Roadworks, Drainage, Utilities for S100

Jul 20 - Oct 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

2.2.4 Bridge Deck Construction for S200

Dec 16 - Mar 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	1	113	65%	0	111
Total SWL						116

2.3 Slip Road S100 + S200 (Start from P2)

2.3.1 Sea Piling Works, Pile Cap & Piers

Apr 18 - Jun 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	1	102	100%	0	102
Concrete lorry mixer	CNP 044	1	109	80%	0	108
Crane	CNP 048	1	112	100%	0	112
Derrick barge	CNP 061	1	104	100%	0	104
Piling, vibration hammer	CNP 172	1	115	100%	0	115
Poker, vibratory, hand-held	CNP 170	2	113	100%	0	116
Generator, Silenced	CNP 102	1	100	100%	0	100
Water pump	CNP 281	1	88	100%	0	88
Dump Truck	CNP 067	1	117	50%	0	114
Backhoe	CNP 081	1	112	100%	0	112
Saw, circular, wood	CNP 201	1	108	100%	0	108
Total SWL						122

2.3.2 Bridge Deck Construction for S100

Jun 18 - Aug 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	1	113	65%	0	111
Total SWL						116

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

2.3.3 Roadworks, Drainage, Utilities for S100

Aug 19 - Feb 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

2.3.4 Bridge Deck Construction for S200

Nov 18 - Oct 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	1	100	90%	0	100
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	90%	0	108
Derrick barge	CNP 061	1	104	90%	0	104
Tug boat	CNP 221	1	110	90%	0	110
Winch (electric)	CNP 262	1	95	90%	0	95
Bar bender and cutter (electric)	CNP 021	1	90	45%	0	87
Concrete lorry mixer	CNP 044	1	109	45%	0	106
Concrete Pump	CNP 047	1	109	45%	0	106
Poker, vibratory, hand-held	CNP 170	1	113	65%	0	111
Total SWL						116

2.3.5 Roadworks, Drainage, Utilities for S200

Jul 20 - Oct 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

2.4 Mainline

2.4.1 Sea Piling Works, Pile Cap & Piers

May 16 - Oct 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Air Compressor	CNP 002	2	102	50%	0	102
Concrete lorry mixer	CNP 044	2	109	50%	0	109
Crane	CNP 048	2	112	50%	0	112
Derrick barge	CNP 061	2	104	50%	0	104
Piling, vibration hammer	CNP 172	2	115	50%	0	115
Poker, vibratory, hand-held	CNP 170	5	113	50%	0	117
Generator, Silenced	CNP 102	2	100	50%	0	100
Water pump	CNP 281	2	88	50%	0	88
Dump Truck	CNP 067	2	117	50%	0	117
Backhoe	CNP 081	2	112	50%	0	112
Saw, circular, wood	CNP 201	2	108	50%	0	108
Bar bender and cutter (electric)	CNP 021	1	90	50%	0	87
Pneumatic Breaker	CNP 027	1	122	50%	0	119
Total SWL						124

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

2.4.2 Bridge Deck Construction for Mainline

Dec 16 - Jan 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	2	100	90%	0	103
Breaker, hand-held, mass <= 10kg	CNP 023	2	108	90%	0	111
Derrick barge	CNP 061	2	104	90%	0	107
Tug boat	CNP 221	2	110	90%	0	113
Winch (electric)	CNP 262	2	95	90%	0	98
Bar bender and cutter (electric)	CNP 021	2	90	45%	0	90
Concrete lorry mixer	CNP 044	2	109	45%	0	109
Concrete Pump	CNP 047	2	109	45%	0	109
Poker, vibratory, hand-held	CNP 170	2	113	65%	0	114
Total SWL						119

2.4.3 Bridge Deck Construction at TKO Portal after Construction of Ventilation Building

May 20 - Nov 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Generator, Silenced	CNP 102	2	100	90%	0	103
Breaker, hand-held, mass <= 10kg	CNP 023	2	108	90%	0	111
Derrick barge	CNP 061	2	104	90%	0	107
Tug boat	CNP 221	2	110	90%	0	113
Winch (electric)	CNP 262	2	95	90%	0	98
Bar bender and cutter (electric)	CNP 021	2	90	45%	0	90
Concrete lorry mixer	CNP 044	2	109	45%	0	109
Concrete Pump	CNP 047	2	109	45%	0	109
Poker, vibratory, hand-held	CNP 170	2	113	65%	0	114
Total SWL						119

2.4.4 Roadworks, Drainage, Utilities for Mainline

Jan 20 - Oct 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck	CNP 067	1	117	50%	0	114
Asphalt Paver	CNP 004	1	109	100%	0	109
Roller, vibratory	CNP 186	1	108	100%	0	108
Generator, Silenced	CNP 102	1	100	100%	0	100
Paint line marker	CNP 161	1	90	80%	0	89
Total SWL						116

3. North Bridge

3.1 Piling works for North Bridge

Mar 16 - May 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Piling, vibration hammer	CNP 172	1	115	30%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
Backhoe	CNP 081	1	112	30%	0	107
Air Compressor	CNP 002	1	102	100%	0	102
Concrete lorry mixer	CNP 044	1	109	30%	0	104
Crane	CNP 048	1	112	30%	0	107
Generator, Silenced	CNP 102	1	100	100%	0	100
Chisel	CNP 164	1	115	100%	0	115
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0	115
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	100%	0	100
Total SWL						120

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario:

Unmitigated ▼

Contract 2: TKO Interchange and Depressed Road P2

3.2 Pile Cap and Column Construction

Jun 16 - Sep 16

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	1	109	30%	0	104
Dump Truck	CNP 067	1	117	30%	0	112
Backhoe	CNP 081	1	112	50%	0	109
Generator, Silenced	CNP 102	1	100	100%	0	100
Crane	CNP 048	1	112	30%	0	107
Poker, vibratory, hand-held	CNP 170	3	113	30%	0	113
Saw, circular, wood	CNP 201	1	108	30%	0	103
Bar bender and cutter (electric)	CNP 021	1	90	30%	0	85
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	30%	0	91
Concrete Pump	CNP 047	1	109	30%	0	104
Lorry	CNP 141	1	112	30%	0	107
Total SWL						118

3.3 Bridge Deck & Lift shaft construction

Sep 16 - Feb 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	1	109	80%	0	108
Crane	CNP 048	1	112	100%	0	112
Poker, vibratory, hand-held	CNP 170	1	113	100%	0	113
Generator, Silenced	CNP 102	1	100	100%	0	100
Bar bender and cutter (electric)	CNP 021	1	90	100%	0	90
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	100%	0	108
Concrete mixer	CNP 045	1	96	100%	0	96
Concrete Pump	CNP 047	1	109	100%	0	109
Lorry	CNP 141	1	112	100%	0	112
Total SWL						119

3.4 Drainage, Utilities & E&M works

Feb 17 - Jun 17

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Mobile Crane	CNP 048	1	112	30%	0	107
Total SWL						115

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario: Unmitigated ▼

Contract 3: P2/D4 Junction Works and P2/D4 Footbridges

(beginning of month - end of month)

1. South Bridge

1.1 Piling Works for South Bridge

Sep 17 - Mar 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane	CNP 048	1	112	30%	0	107
Piling, vibration hammer	CNP 172	1	115	30%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
Backhoe	CNP 081	1	112	30%	0	107
Air Compressor	CNP 002	1	102	100%	0	102
Concrete lorry mixer	CNP 044	1	109	30%	0	104
Generator, Silenced	CNP 102	1	100	100%	0	100
Chisel	CNP 164	1	115	100%	0	115
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0	115
Piling, large diameter bored, reverse circulation drill	CNP 166	1	100	100%	0	100
Total SWL						120

1.2 Pile Cap and Column Construction

Mar 18 - Sep 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	1	109	30%	0	104
Dump Truck	CNP 067	1	117	30%	0	112
Backhoe	CNP 081	1	112	50%	0	109
Generator, Silenced	CNP 102	1	100	100%	0	100
Crane	CNP 048	1	112	30%	0	107
Poker, vibratory, hand-held	CNP 170	3	113	30%	0	113
Saw, circular, wood	CNP 201	1	108	30%	0	103
Bar bender and cutter (electric)	CNP 021	1	90	30%	0	85
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	30%	0	91
Concrete Pump	CNP 047	1	109	30%	0	104
Lorry	CNP 141	1	112	30%	0	107
Total SWL						118

1.3 Bridge Deck & Lift shaft construction

Sep 18 - Mar 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete lorry mixer	CNP 044	1	109	80%	0	108
Crane	CNP 048	1	112	100%	0	112
Poker, vibratory, hand-held	CNP 170	1	113	100%	0	113
Generator, Silenced	CNP 102	1	100	100%	0	100
Bar bender and cutter (electric)	CNP 021	1	90	100%	0	90
Breaker, hand-held, mass <= 10kg	CNP 023	1	108	100%	0	108
Concrete mixer	CNP 045	1	96	100%	0	96
Concrete Pump	CNP 047	1	109	100%	0	109
Lorry	CNP 141	1	112	100%	0	112
Total SWL						119

1.4 Drainage & Utilities

Mar 19 - Jun 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Mobile Crane	CNP 048	1	112	30%	0	107
Total SWL						115

1.5 Finishing & Landscaping & E&M works

Jun 19 - Dec 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Total SWL						115

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario:

Unmitigated ▼

Contract 3: P2/D4 Junction Works and P2/D4 Footbridges

2. Slip Road Between L681 & Road P2

2.1 Roadworks, Signage, Drainage, E&M

Sep 17 - Mar 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	50%	0	109
Loader	CNP 081	1	112	50%	0	109
Mobile Crane	CNP 048	1	112	50%	0	109
Grader	CNP 104	1	113	30%	0	108
Bulldozer	CNP 030	1	115	30%	0	110
Lorry	CNP 141	2	112	50%	0	112
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	1	113	30%	0	108
Total SWL						118

3. Depressed Road P2 and Associated Slip Roads

3.1 Roadworks, Signage, Drainage, E&M

Sep 17 - Mar 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	50%	0	109
Loader	CNP 081	1	112	50%	0	109
Mobile Crane	CNP 048	1	112	50%	0	109
Grader	CNP 104	1	113	30%	0	108
Bulldozer	CNP 030	1	115	30%	0	110
Lorry	CNP 141	2	112	50%	0	112
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	1	108	30%	0	103
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	1	113	30%	0	108
Total SWL						118

3.2 Noise Barrier at Road P2

Dec 17 - Mar 18

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry	CNP 141	2	112	100%	0	115
Crane	CNP 048	2	112	100%	0	115
Total SWL						118

4. P2/D4 Junction Works

4.1 Install Traffic Lighting System

Dec 19 - Jun 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	65%	0	110
Loader	CNP 081	1	112	50%	0	109
Lorry	CNP 141	1	112	65%	0	110
Total SWL						115

4.2 Junction Modification Works

Jun 20 -Nov 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grader	CNP 104	1	113	30%	0	108
Bulldozer	CNP 030	2	115	30%	0	113
Lorry	CNP 141	1	112	20%	0	105
Compactor	CNP 050	1	105	30%	0	100
Roller	CNP 186	2	108	30%	0	106
Concrete mixer	CNP 045	1	96	50%	0	93
Vibratory poker	CNP 170	2	113	30%	0	111
Hydraulic breaker	CNP 028	2	122	80%	0	124
Total SWL						125

Appendix 4.3 Powered Mechanical Equipment (PME) for the Different Construction Tasks

Scenario:

Unmitigated ▼

T2 Entrustment Works at Cha Kwo Ling Village

(beginning of month - end of month)

1 Cut & Cover Works (Erection of Construction Shaft & Cut and Cover Tunnel at CKLPCA)

Jul 16 - Jul 17

1.1 Erection of Construction Shaft & Cut and Cover Tunnel at CKLPCA

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	5	112	70%	0	117
Hydraulic breaker	CNP 028	1	122	70%	0	120
Saw, concrete	CNP 203	1	115	40%	0	111
Lorry with crane/grab	CNP 145	1	105	100%	0	105
Crane, mobile	CNP 048	1	112	70%	0	110
Total SWL						123

1.2 Mechanical Breaking at CKLR & CKLV including Pile Roofing Works

July 17 - Jan 19

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with hydraulic breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	5	117	30%	0	119
Concrete pump truck	CNP 047	1	109	30%	0	104
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Total SWL						123

1.3 Remaining Mechanical Breaking for CKL Tunnel

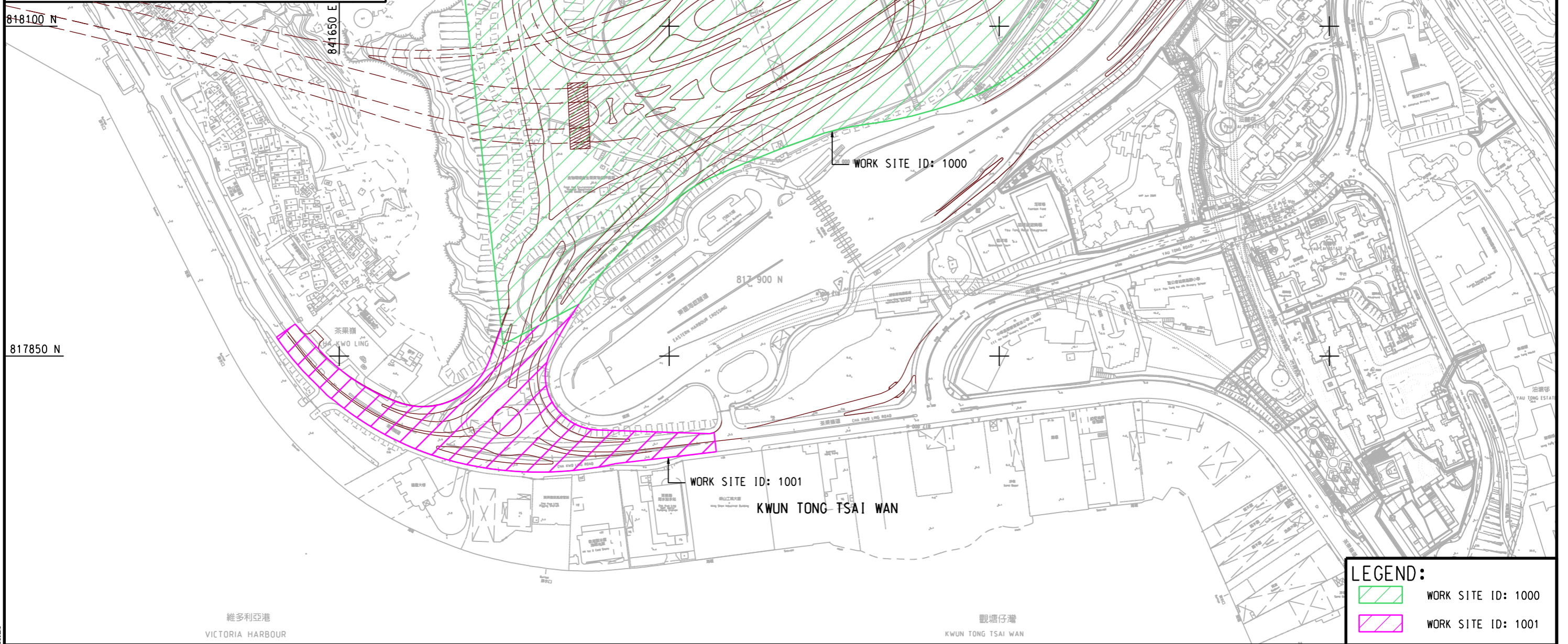
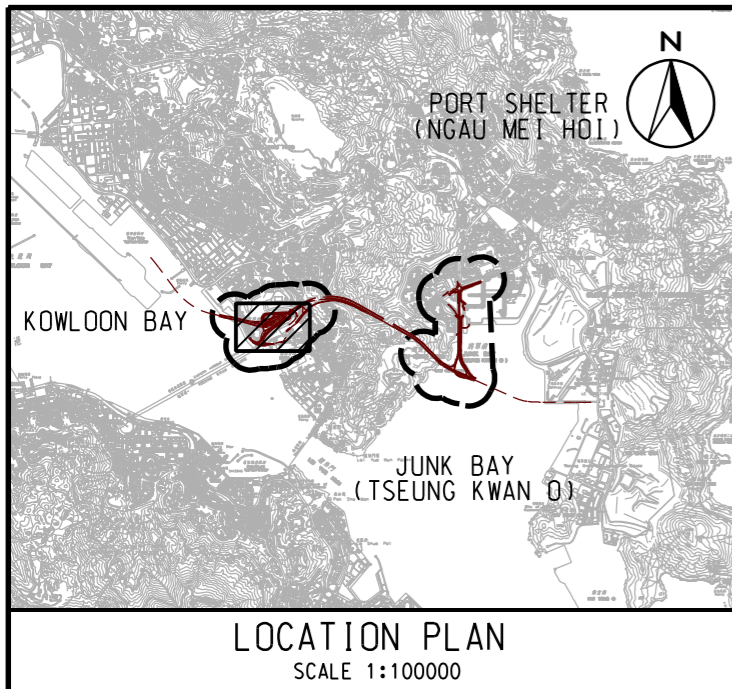
Jan 19 - Jan 20

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with hydraulic breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	5	117	30%	0	119
Concrete pump truck	CNP 047	1	109	30%	0	104
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Total SWL						123

Appendix 4.3 Predicted Construction Noise Levels at Representative NSRs (Unmitigated)

NSR: N3104 - No. 121, Cha Kwo Ling Village, Cha Kwo Ling
Scenario: Unmitigated

Table with columns for Work Item, Construction Activity, Date, and Noise Level (NSR) from 2016 to 2020. Rows include Contract 1 (Site Clearance, Piling, etc.), Contract 2 (Piling, Reclamation, etc.), and Contract 3 (Piling, Bridge, etc.).



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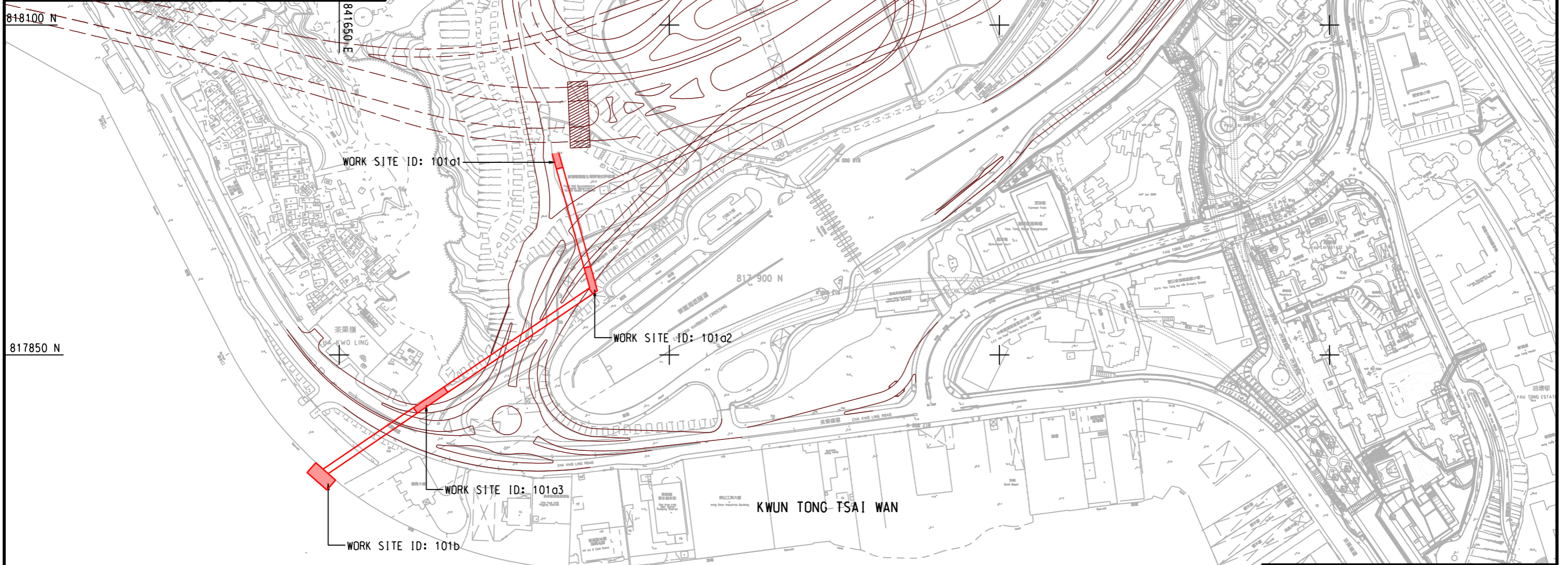
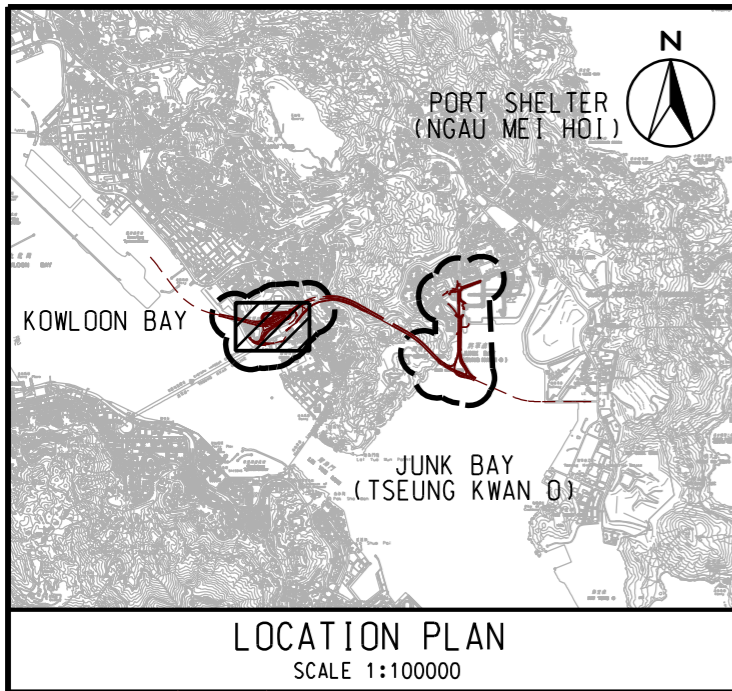
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AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1 : 3000	DATE	MAR. 2013
CHECK	-	DRAWN	QAM
JOB No.	60097677	DRAWING No.	Appendix 4.3-C1a
		REV	-



LEGEND:

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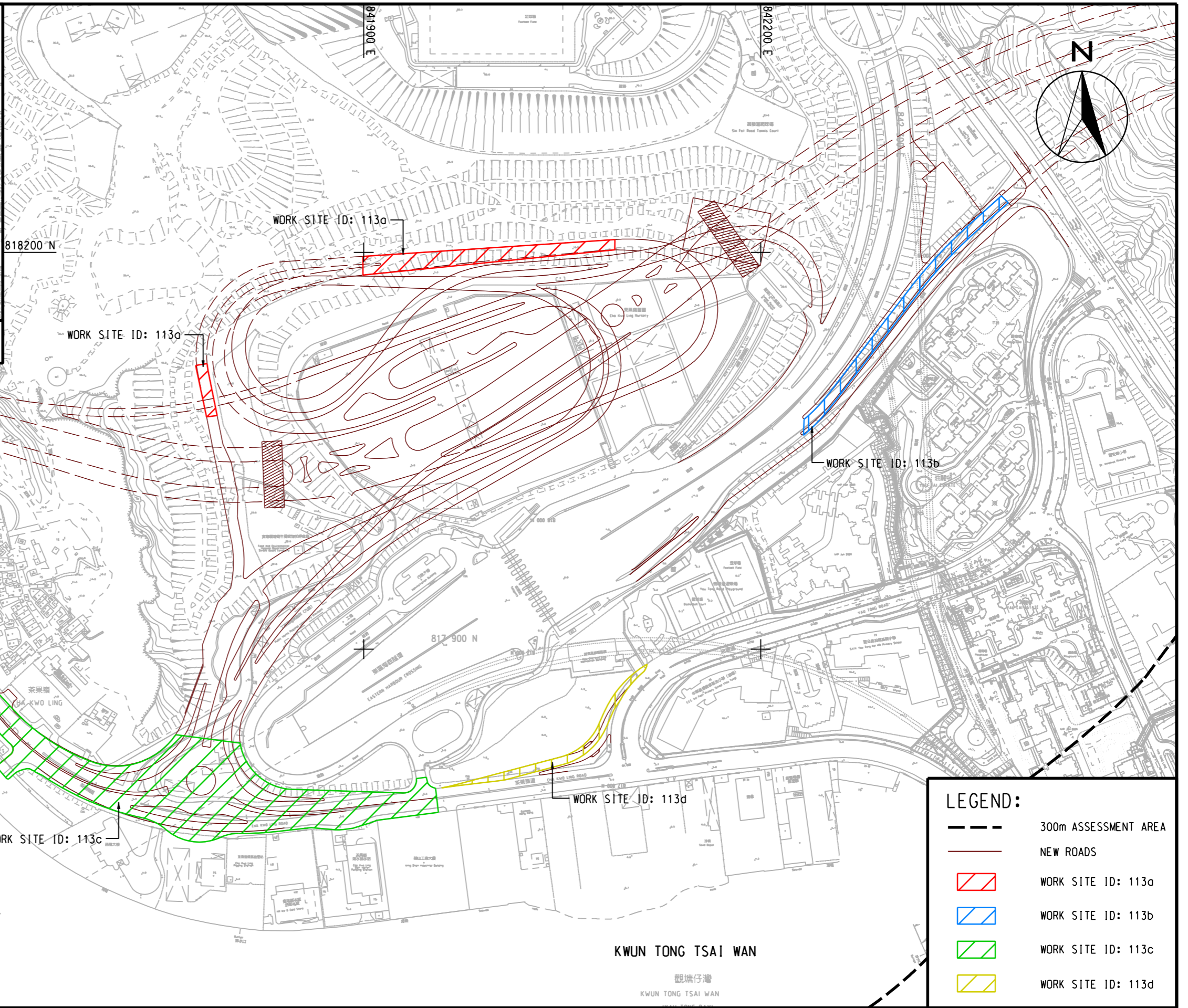
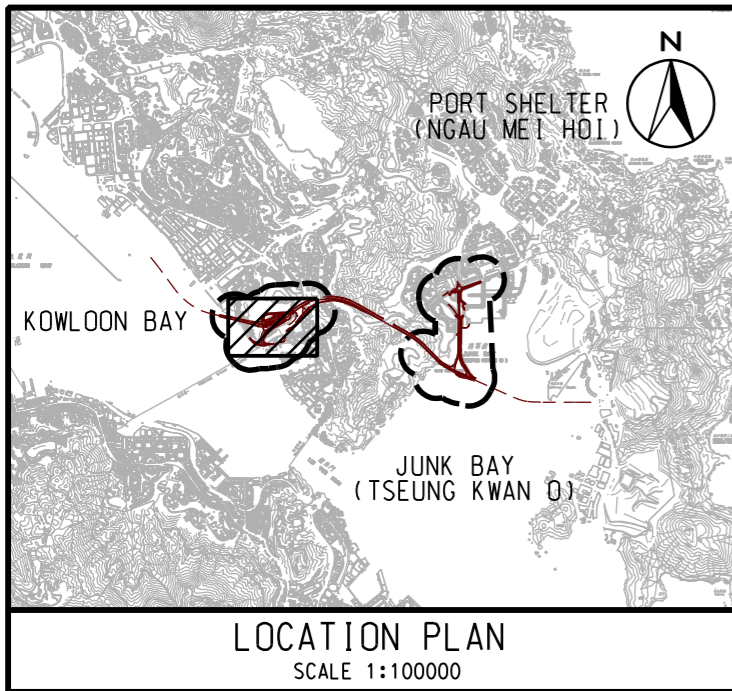


AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

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Plot File by: 1/29/2013 QAM



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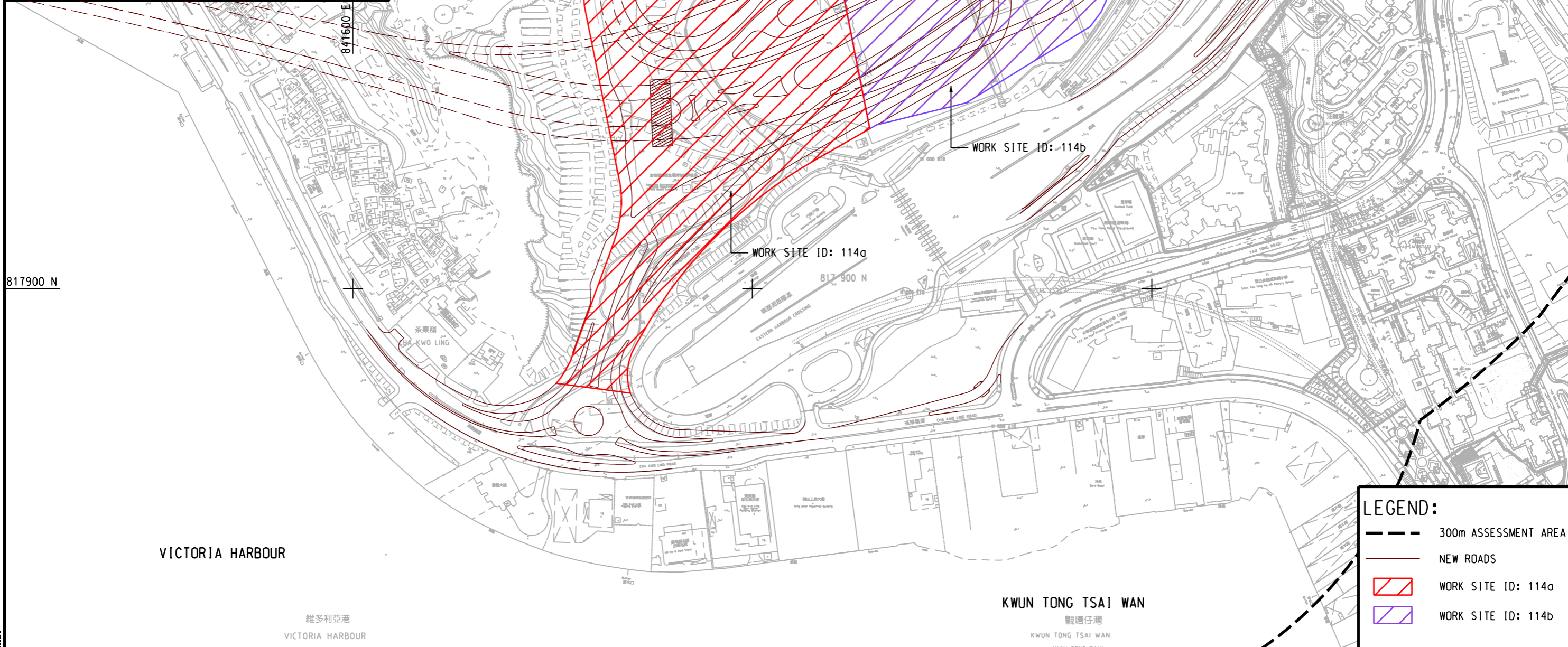
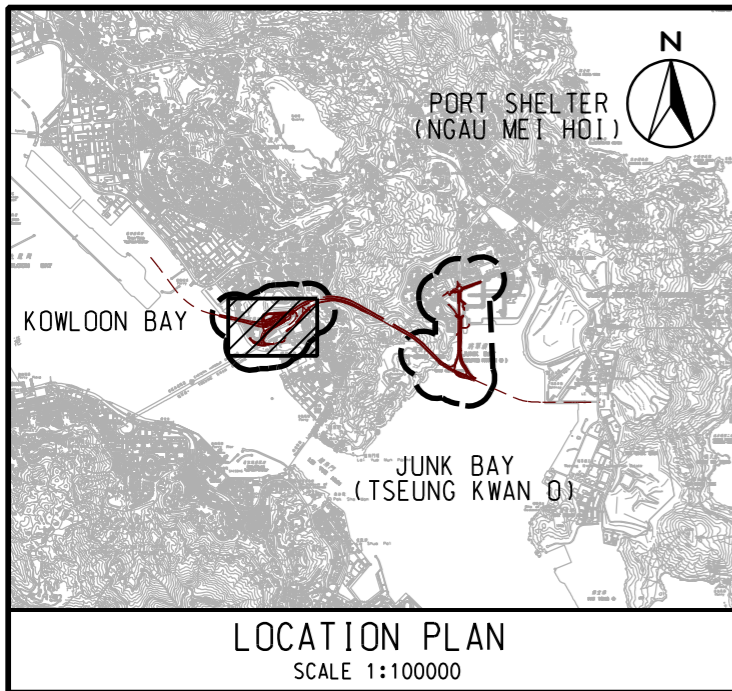
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- NEW ROADS
- [Red Hatched Box] WORK SITE ID: 113a
- [Blue Hatched Box] WORK SITE ID: 113b
- [Green Hatched Box] WORK SITE ID: 113c
- [Yellow Hatched Box] WORK SITE ID: 113d

AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1 : 3000	DATE	JAN. 2013
CHECK	-	DRAWN	QAM
JOB No.	60097677	DRAWING No.	Appendix 4.3-C1c
		REV	-



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LEGEND:

- 300m ASSESSMENT AREA
- NEW ROADS
- WORK SITE ID: 114a
- WORK SITE ID: 114b



AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

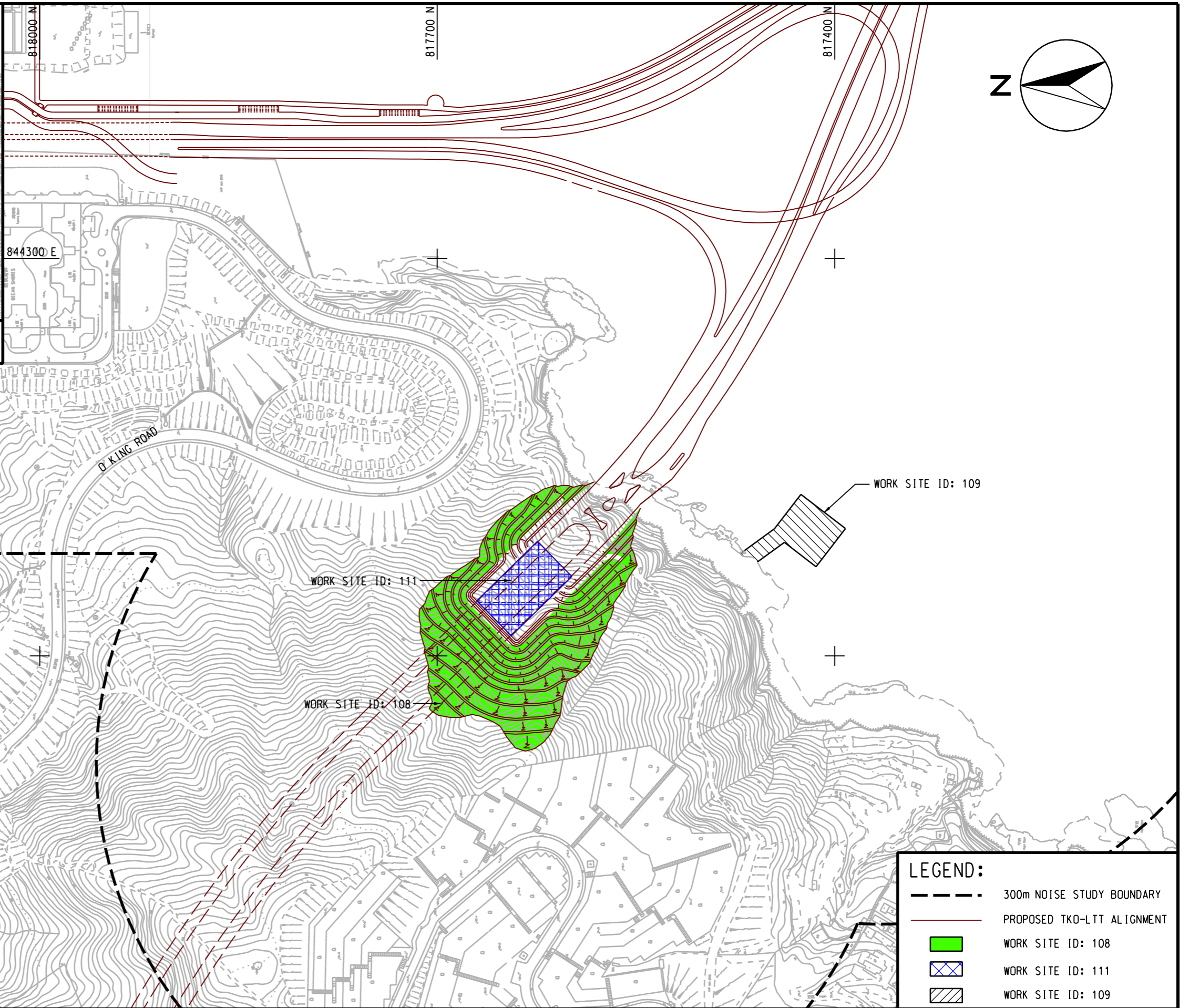
LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1 : 3000	DATE	MAR. 2013
CHECK	-	DRAWN	QAM
JOB No.	60097677	DRAWING No.	Appendix 4.3-C1d
		REV	-

File Path: 3/7/2013 Q:\QAM



LOCATION PLAN
SCALE 1 : 90000



LEGEND:

- 300m NOISE STUDY BOUNDARY
- PROPOSED TKO-LTT ALIGNMENT
- WORK SITE ID: 108
- WORK SITE ID: 111
- WORK SITE ID: 109

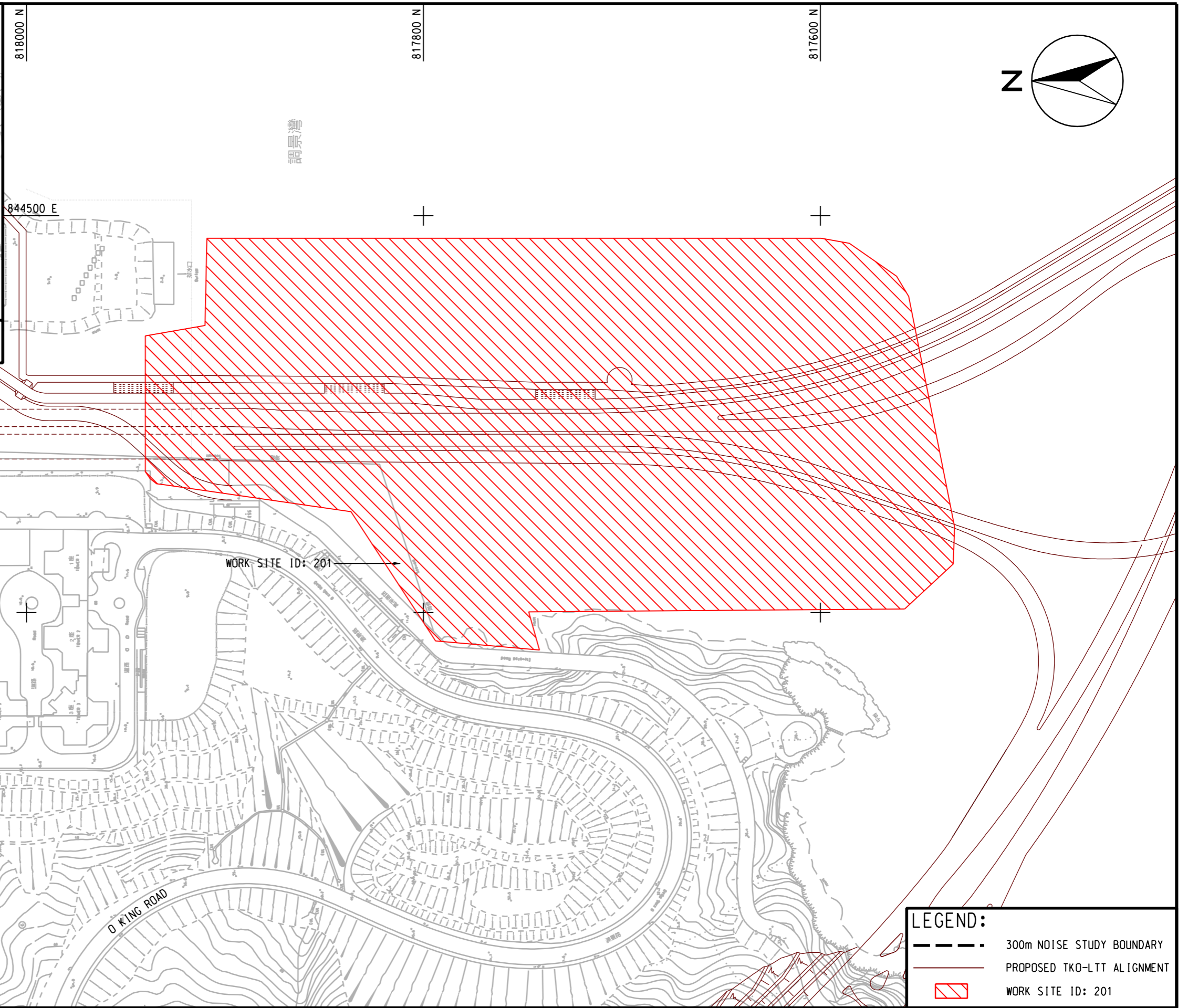
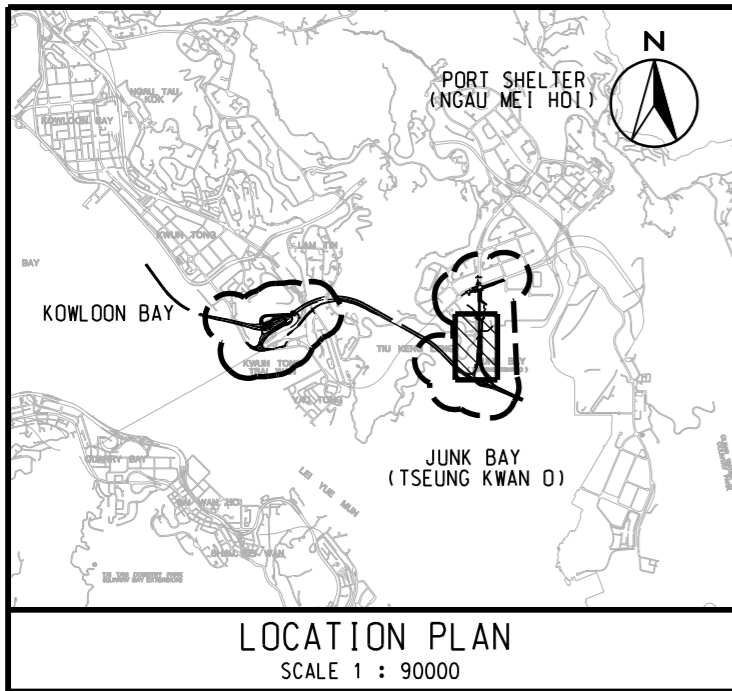


AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1 : 3000	DATE	JAN. 2013
CHECK	--	DRAWN	QAM
JOB No.	60097677	DRAWING No.	Appendix 4.3-C1e
		REV	-

Plot File by : 1/29/2013 QAM



LEGEND:

- 300m NOISE STUDY BOUNDARY
- PROPOSED TKO-LTT ALIGNMENT
- ▨ WORK SITE ID: 201

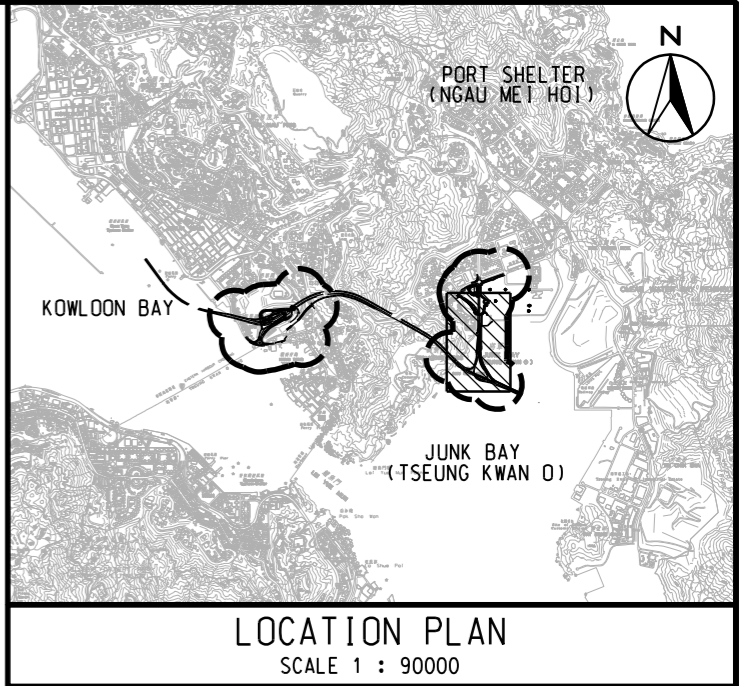
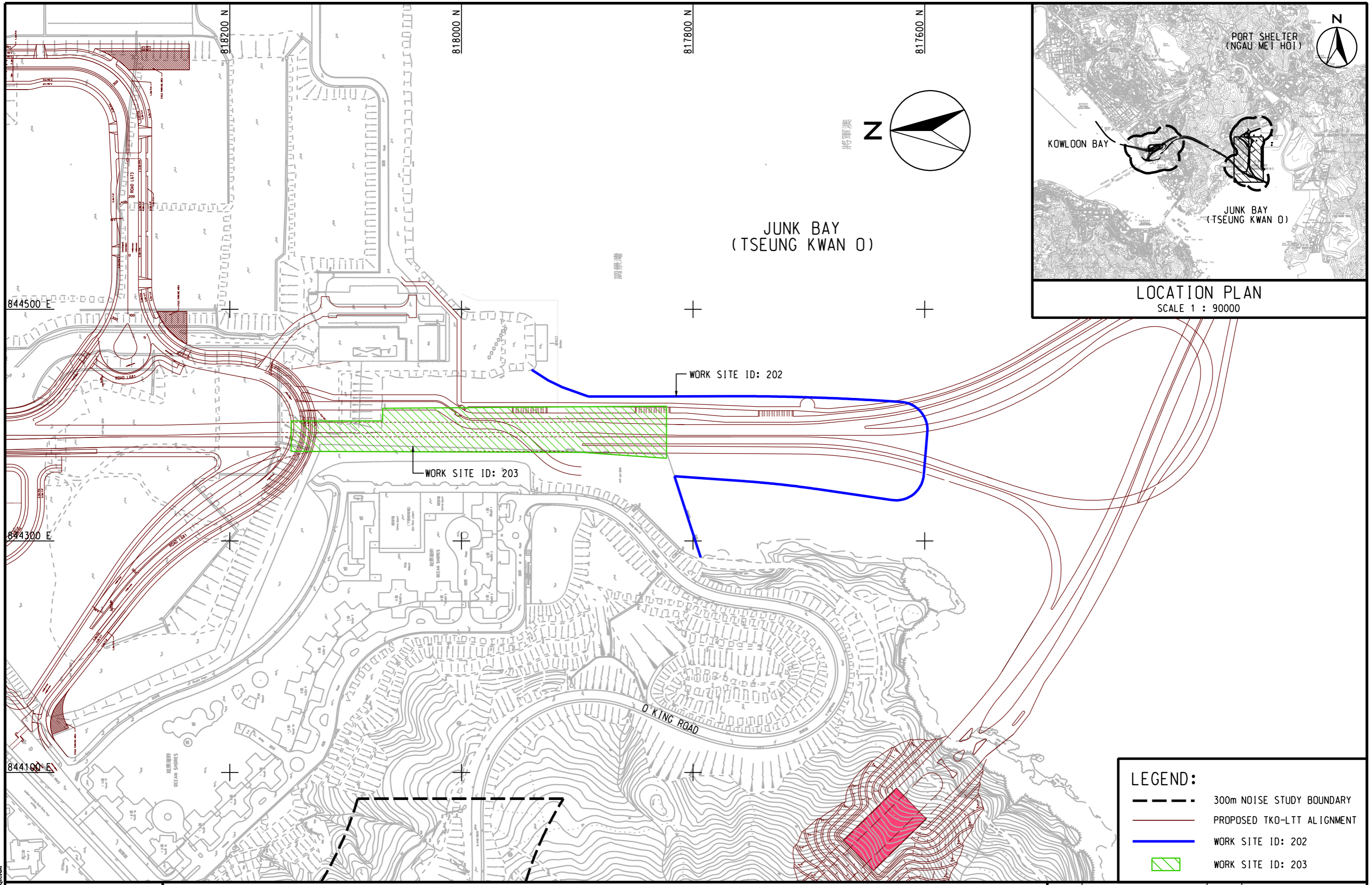
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AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

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JOB No.	60097677	DRAWING No.	Appendix 4.3-C2a
		REV	-



LEGEND:

- 300m NOISE STUDY BOUNDARY
- PROPOSED TKO-LTT ALIGNMENT
- WORK SITE ID: 202
- WORK SITE ID: 203

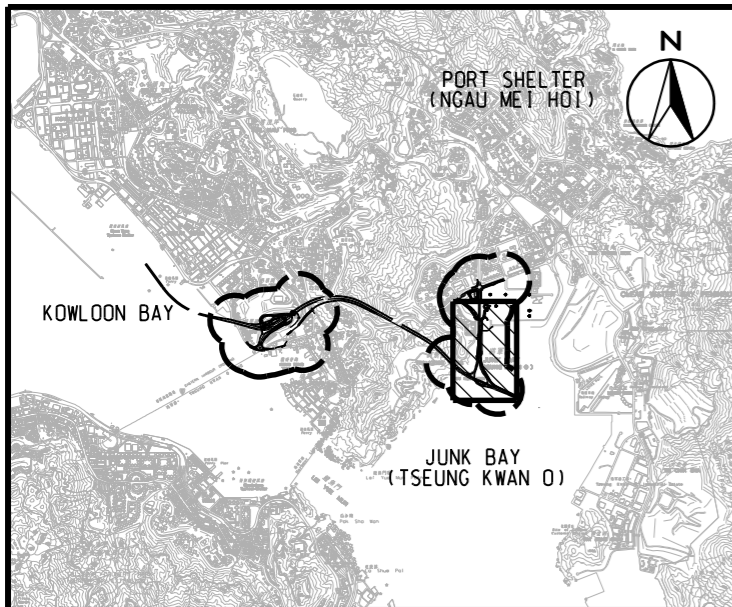
AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

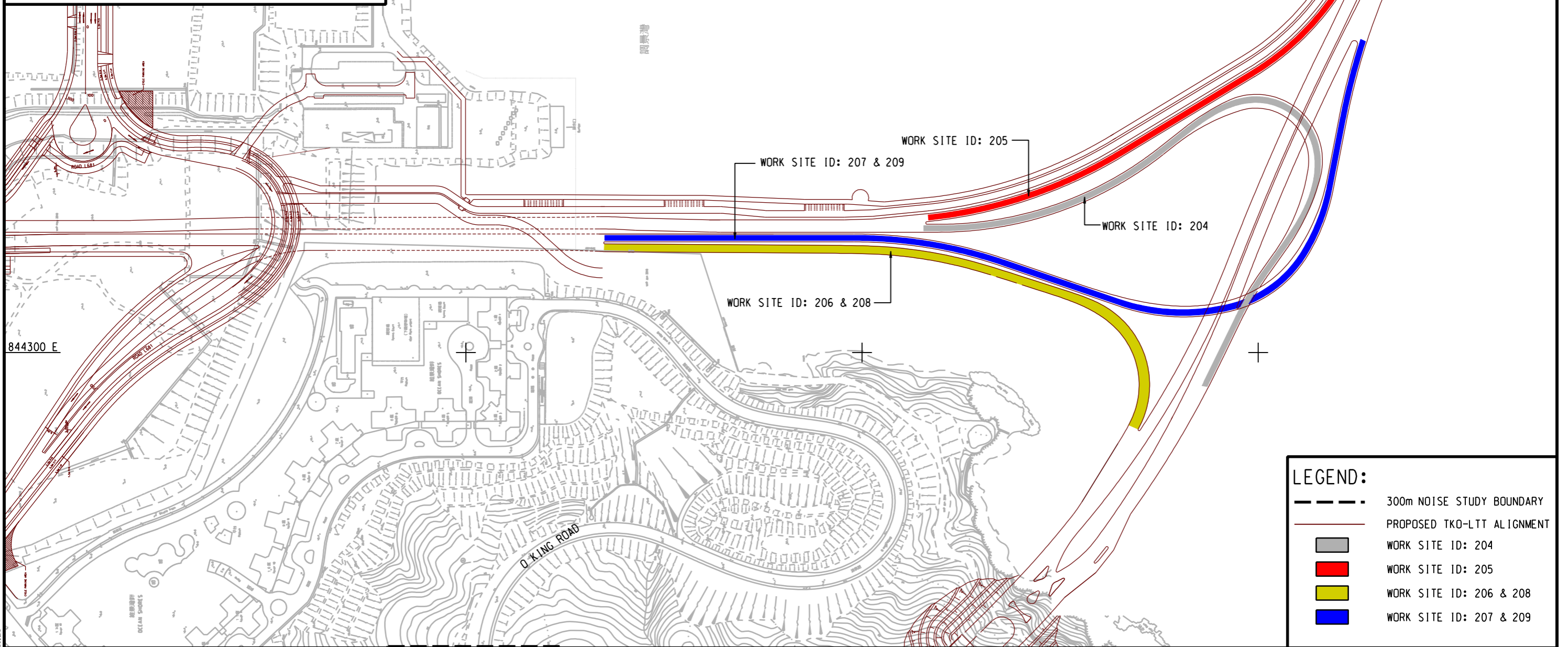
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JOB No.	60097677	DRAWING No.	Appendix 4.3-C2b
		REV	-



Plot File by : 1/29/2013 QAM



LOCATION PLAN
SCALE 1 : 90000



LEGEND:

- 300m NOISE STUDY BOUNDARY
- PROPOSED TKO-LTT ALIGNMENT
- WORK SITE ID: 204
- WORK SITE ID: 205
- WORK SITE ID: 206 & 208
- WORK SITE ID: 207 & 209

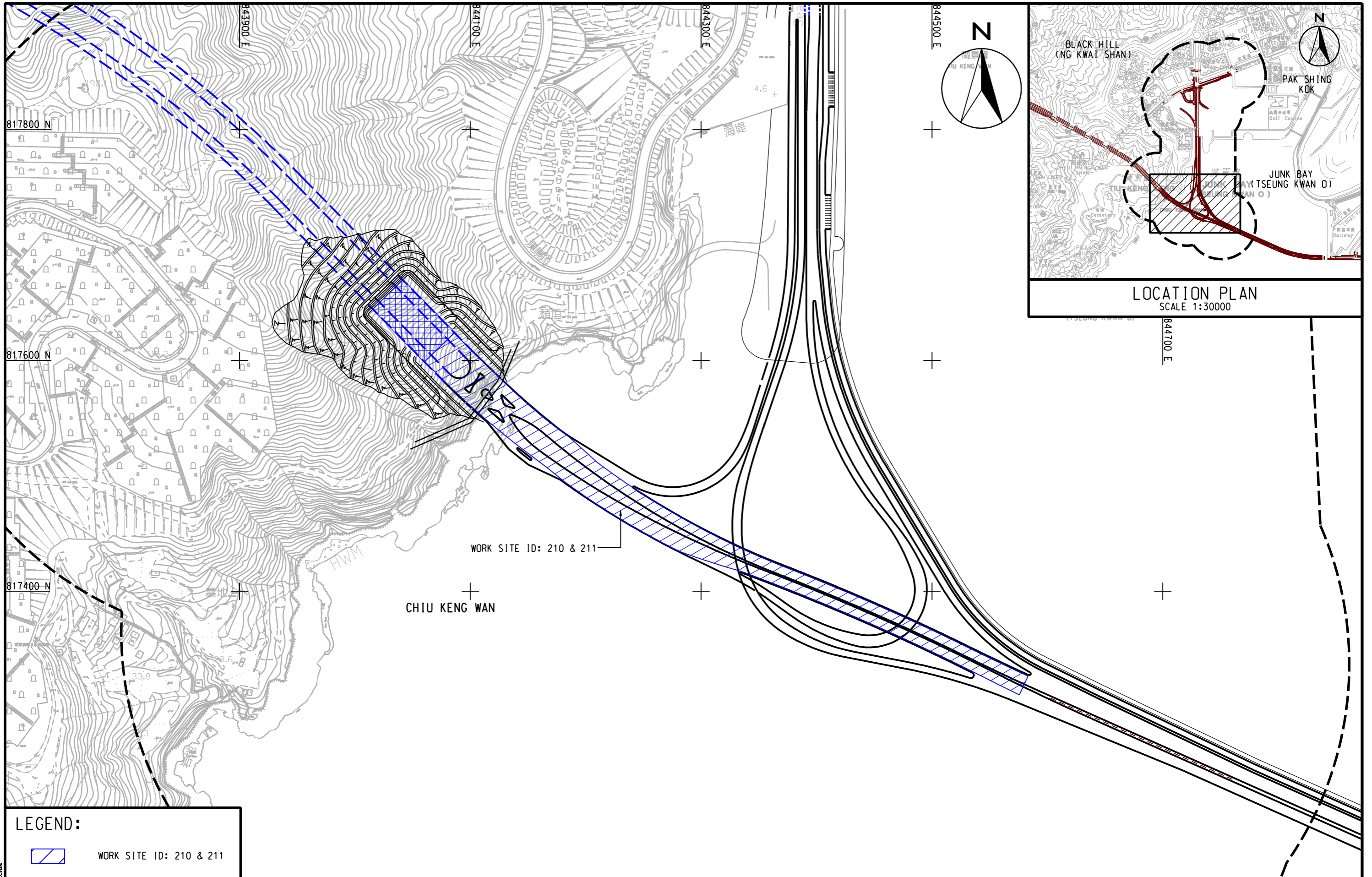
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AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1:3000	DATE	JAN. 2013
CHECK	--	DRAWN	QAM
JOB NO.	60097677	DRAWING No.	Appendix 4.3-C2c
		REV	-



LEGEND:

 WORK SITE ID: 210 & 211

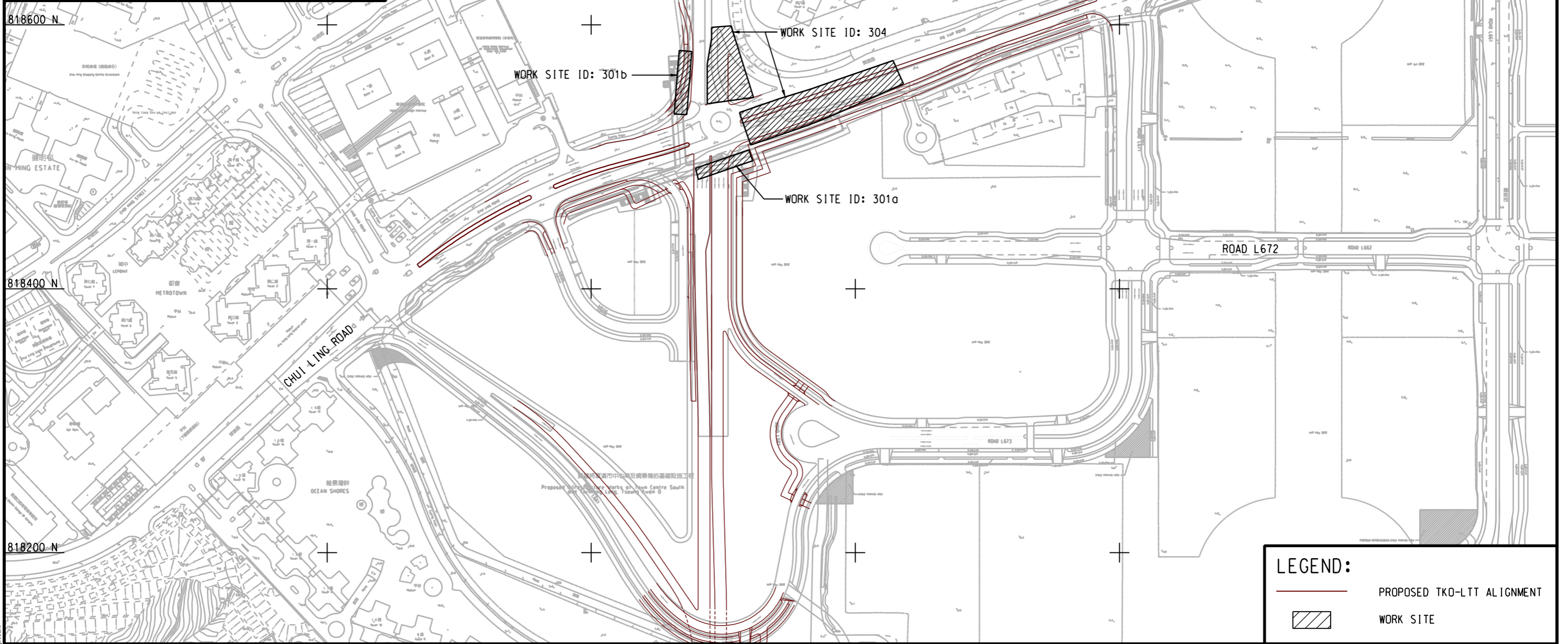
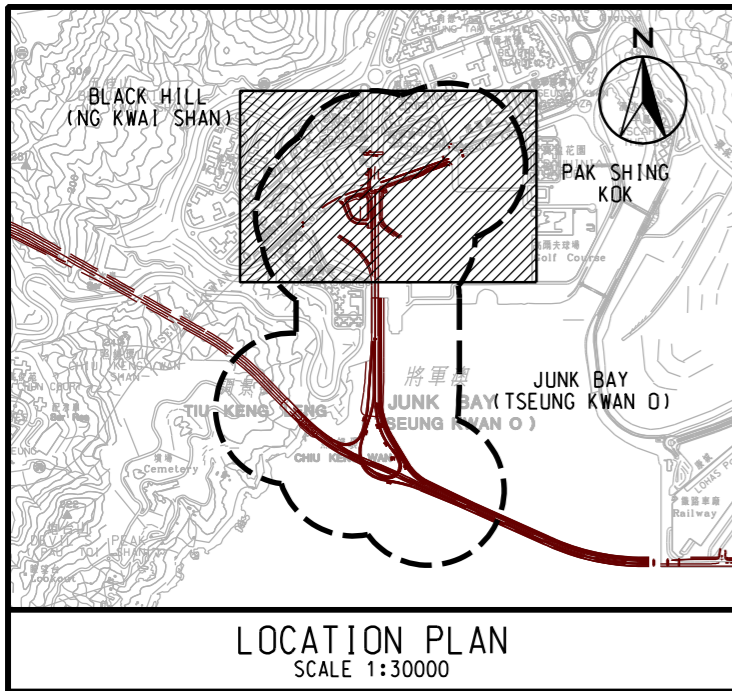


AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

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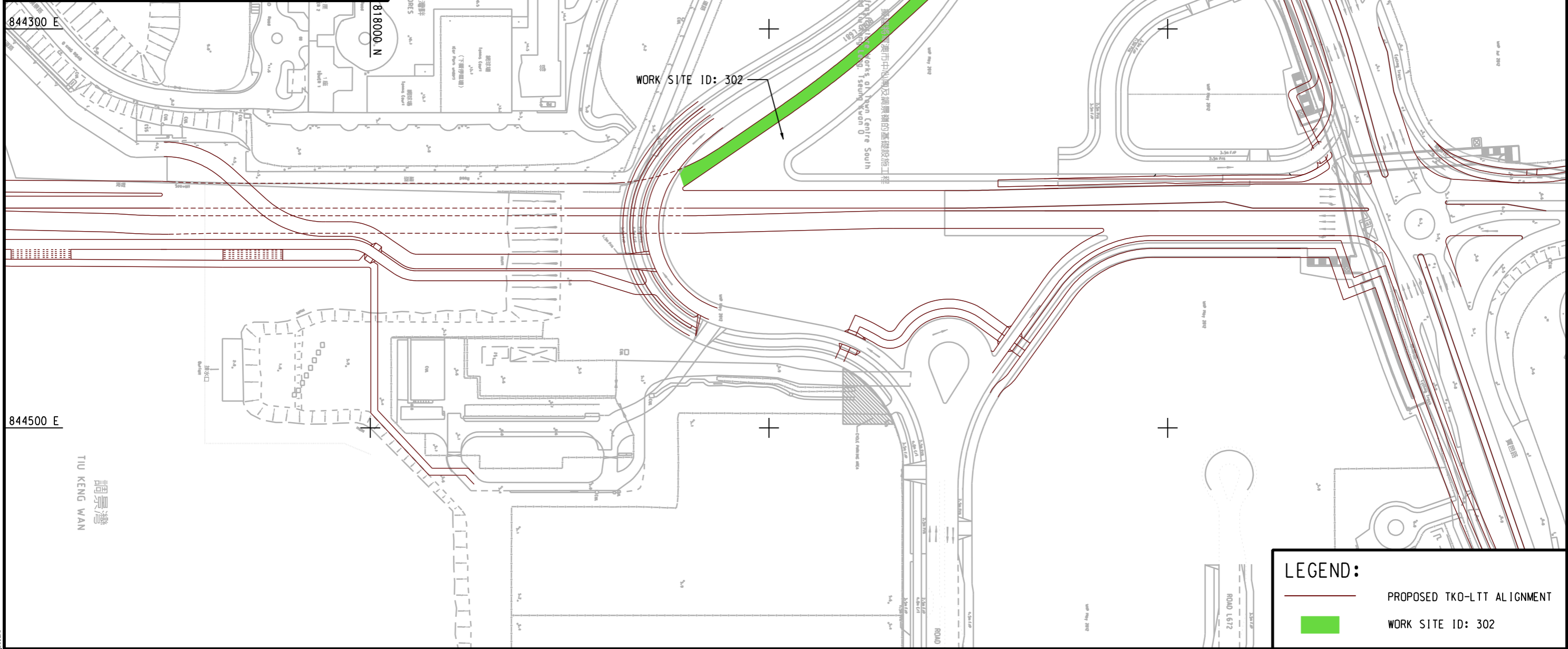
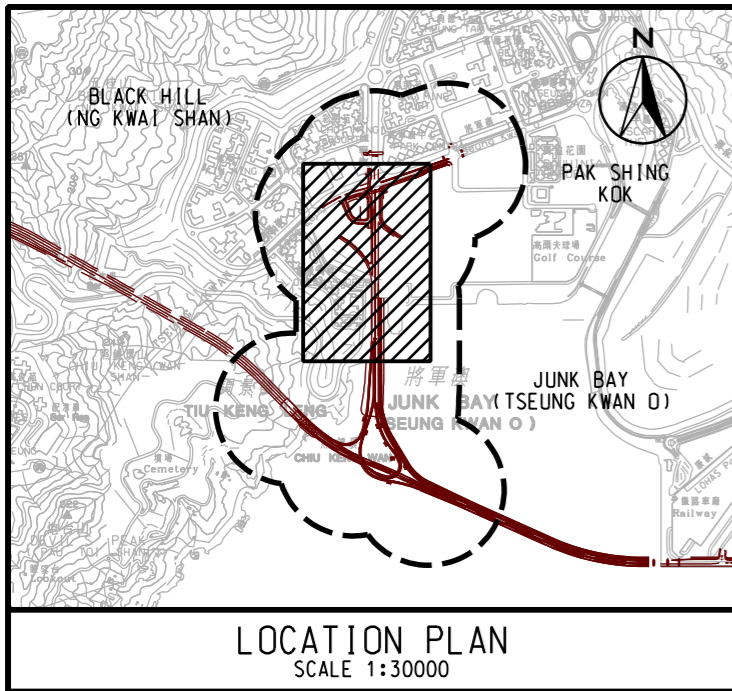


AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

LOCATIONS OF NOTIONAL SOURCE

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		REV	-





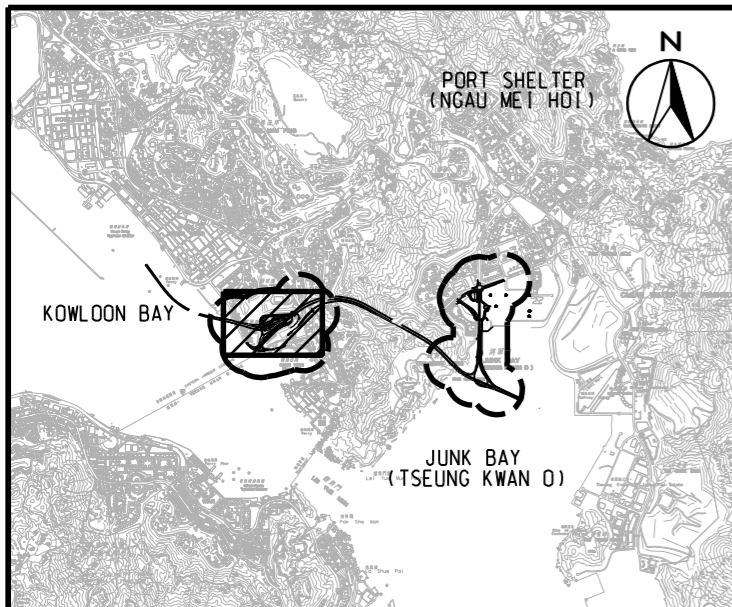
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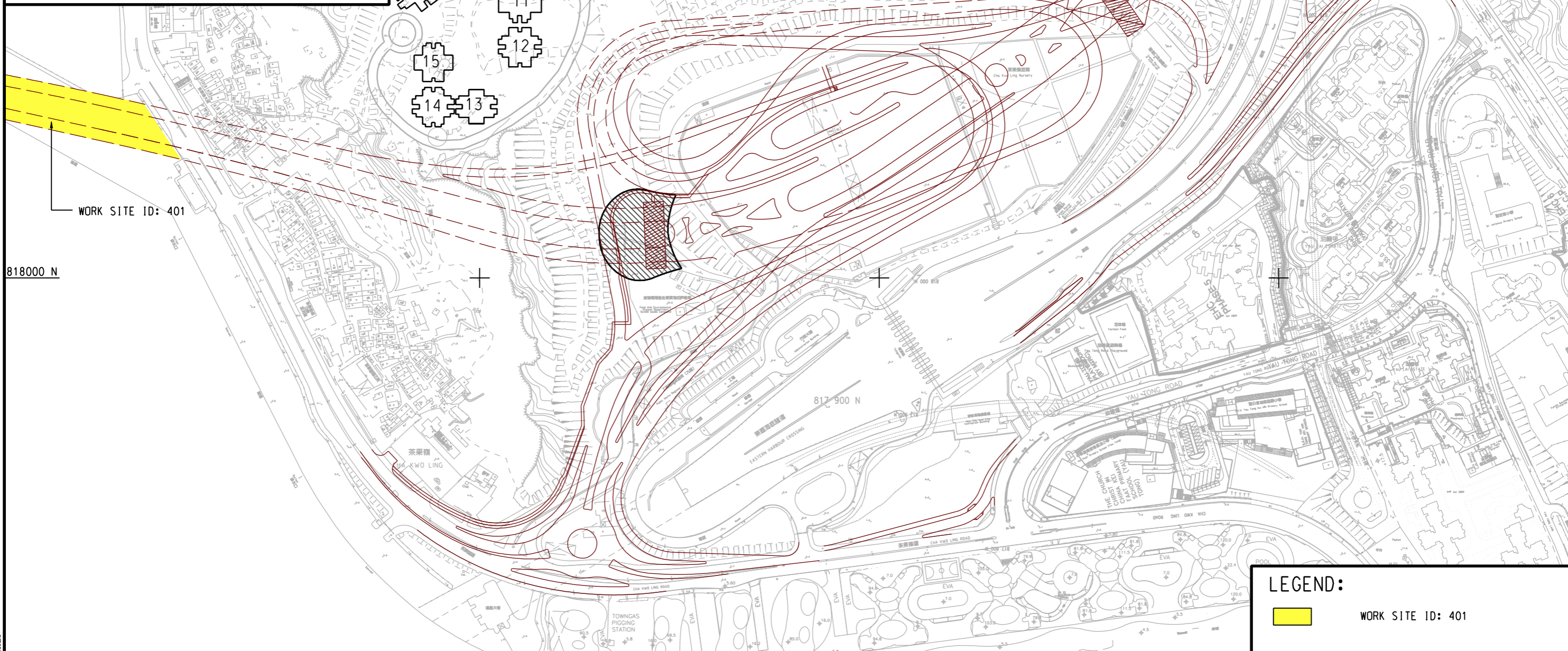
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 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LOCATIONS OF NOTIONAL SOURCE

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CHECK	--	DRAWN	QAM
JOB No.	60097677	DRAWING No.	Appendix 4.3-C3b
		REV	-

Plot File by : 1/29/2013 QTCAM



LOCATION PLAN
SCALE 1 : 90000



LEGEND:

	WORK SITE ID: 401
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AGREEMENT NO. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LOCATIONS OF NOTIONAL SOURCE

SCALE	A3 1 : 3000	DATE	JAN. 2013
CHECK	--	DRAWN	HLL
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