

Legislative Council Panel on Planning, Lands and Works

277 CL – Tseung Kwan O Development, Phase II Remaining Engineering Works

Supplementary Information

Background

When the Legislative Council Panel on Planning, Lands and Works considered the proposed construction of a grade-separated interchange in Tseung Kwan O at its meeting on 2 April 2001, Members requested supplementary information on noise levels, traffic management, low noise road surfacing, weaving length and expansion joints.

Noise figures

2. Traffic noise levels at Nan Fung Plaza, On Ning Garden, King Lam Estate and Chung Ming Court after incorporating noise mitigation measures are given in the attached tables. Drg. No. TKZ0216 shows the locations of the noise sensitive receivers.

Traffic management

3. The following traffic measures have been taken and will continue until the completion of the proposed grade separated interchange to manage the traffic at the Tseung Kwan O Tunnel Road/Wan Po Road/Po Shun Road junction :

- Traffic police are deployed in both the morning and afternoon peak hours for at least 1.5 hours each period on Monday to Saturday to regulate traffic on the spot;
- Police officers on mobile patrol along Tseung Kwan O Tunnel Road will monitor the traffic situation during the morning and afternoon peak hour periods. The Police also keep a close liaison with staff of TKO Tunnel, especially in the towing of broken down vehicles or vehicles involved in accidents at the vicinity.

4. In addition, provisions will be made in the construction contract for a Traffic Management Liaison Group (TMLG) comprising representatives from various government departments and authorities to consider the temporary traffic arrangement and control during the entire construction period.

Low noise road surfacing

5. The "Guidance Notes on Noise Reducing Highway Surfacing" issued by the Highways Department stipulate that the use of low noise road surfacing should be limited to straight roads with free flowing traffic running at 70 km/h or above. In line with the Guidance Notes, low noise road surfacing will be used on Bridge B and other roads meeting the stipulated requirement, but not on Bridges A and C.

Weaving length

6. There are two weaving sections within this project along westbound Po Shun Road, and both of which have been designed in accordance with the Transport Planning & Design Manual on Highway Design Characteristics. The weaving section between the roundabout at Po Shun Road / Po Ning Road / Po Lam Road North and the approach to Bridge A has a weaving length of 130 m. The other weaving section underneath the elevated section of Po Hong Road has a weaving length of 70 m. Both of them are adequate in accordance to the Design Manual.

Expansion joints

7. We have minimized the use of expansion joints when designing the proposed bridges¹. We will also employ the latest design of expansion joints which will result in very low noise. Vibration induced by the passage of traffic will also be greatly reduced.

Territory Development Department
April 2001

¹ A total of seven expansion joints will be used in the three new bridges to be built under this project.

景林邨交通噪音水平 Traffic Noise Level at King Lam Estate

噪音敏感受體 NSR ID	樓層 Floor	交通噪音水平 (分貝(A)) Traffic Noise level dB(A)		
		現有道路 Existing Road	新路 New Road	總體 Overall
KL1	1		42.8	42.8
	5		48.6	48.6
	10	不受現有道路 影響 Not affected by existing road	59.7	59.7
	15		60.5	60.5
	20		61.1	61.1
	25		61.1	61.1
	30		61.1	61.1
	35		61.1	61.1
Top	61.1	61.1		
KL2	1	68.2	57.9	68.6
	5	69.4	59.0	69.8
	10	69.2	58.9	69.6
	15	68.9	58.7	69.3
	20	68.5	58.6	68.9
	25	68.5	58.6	68.9
	30	68.5	58.6	68.9
	Top	68.5	58.6	68.9
KL3	1	69.7	61.6	70.3
	5	70.2	62.7	70.9
	10	69.7	62.6	70.5
	15	69.2	62.4	70.0
	20	68.6	62.1	69.5
	25	68.1	61.8	69.0
	30	67.6	61.5	68.6
	Top	67.0	61.1	68.0
KL4	1	67.8	60.1	68.5
	5	67.6	61.6	68.6
	10	66.9	61.6	68.0
	15	66.3	61.6	67.6
	20	65.8	61.5	67.2
	25	65.4	61.2	66.8
	30	64.9	61.0	66.4
	Top	64.4	60.7	65.9
KL5	1		59.7	59.7
	5		61.6	61.6
	10	不受現有道路 影響 Not affected by existing road	62.4	62.4
	15		63.0	63.0
	20		63.2	63.2
	25		63.1	63.1
	30		62.9	62.9
	35		62.8	62.8
Top	62.8	62.8		
KL6	1	68.4	61.7	69.2
	5	69.5	62.7	70.3
	10	69.0	63.6	70.1
	15	68.6	63.2	69.7
	20	68.1	62.8	69.2
	25	67.7	62.4	68.8
	30	67.3	62.1	68.4
	Top	66.8	61.6	67.9
KL7	1		59.3	59.3
	5		66.0	66.0
	10		66.2	66.2
	15	不受現有道路 影響 Not affected by existing road	66.5	66.5
	20		66.0	66.0
	25		65.6	65.6
	30		65.1	65.1
	35		64.7	64.7
Top	64.6		64.6	
KL8	1		61.0	61.0
	5		65.3	65.3
	10		66.8	66.8
	15	不受現有道路 影響 Not affected by existing road	67.0	67.0
	20		66.8	66.8
	25		66.7	66.7
	30		66.3	66.3
	35		66.0	66.0
Top	66.0		66.0	

頌明苑交通噪音水平 Traffic Noise Level at Chung Ming Court

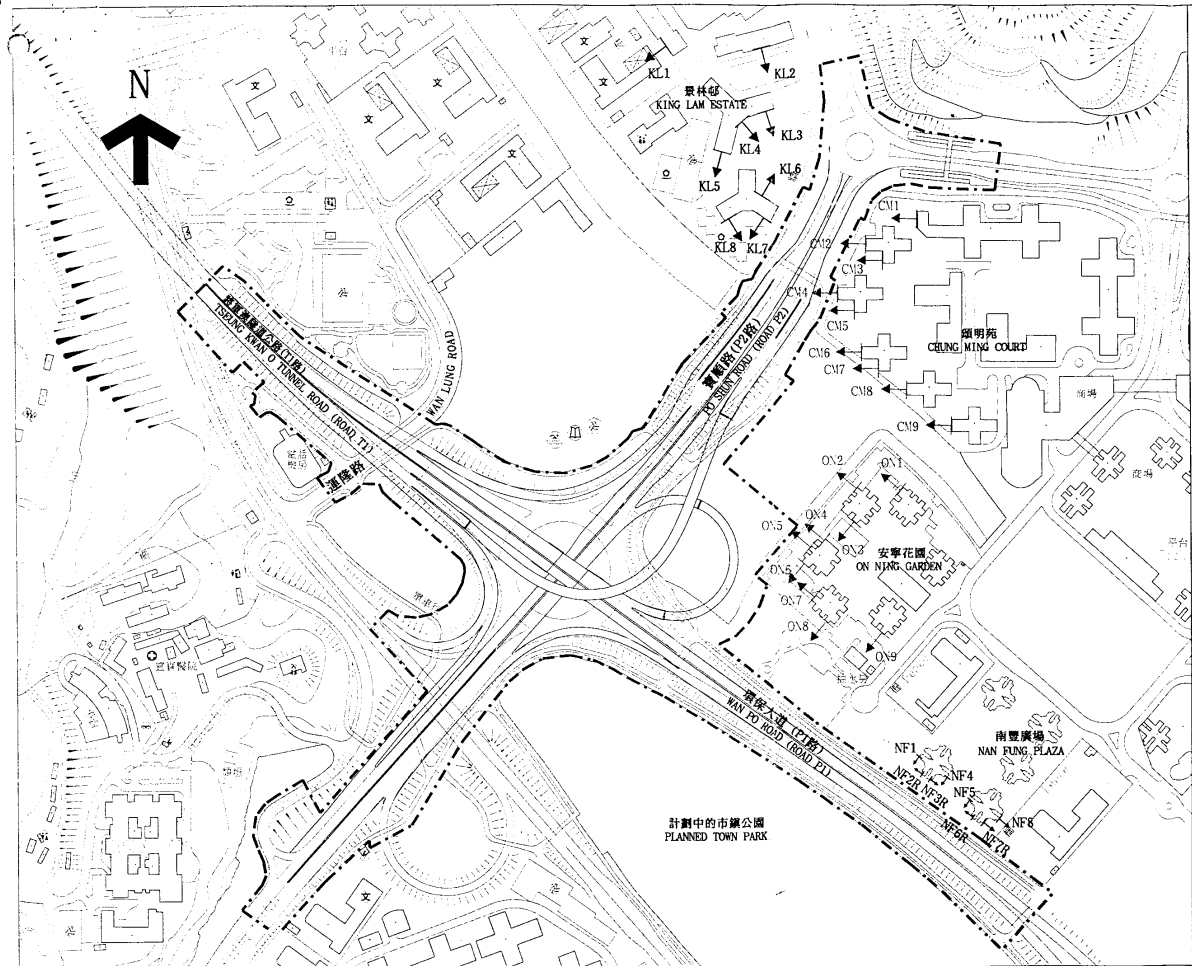
噪音敏感受體 NSR ID	樓層 Floor	交通噪音水平 (分貝(A)) Traffic Noise level dB(A)		
		現有道路 Existing Road	新路 New Road	總體 Overall
CM1	1	68.1	63.1	69.3
	5	70.8	64.9	71.8
	10	70.3	64.7	71.4
	15	69.9	64.5	71.0
CM2	1	66.3	62.1	67.7
	5	67.1	67.6	70.4
	10	66.3	67.2	69.8
	15	65.7	66.6	69.2
	20	65.1	66.4	68.8
	25	64.5	65.8	68.2
	30	64.0	65.2	67.7
	35	63.5	64.9	67.2
Top	63.3	64.6	67.0	
CM3	1		45.1	45.1
	5		57.2	57.2
	10		59.1	59.1
	15	不受現有道路 影響	58.8	58.8
	20	Not affected by existing road	58.3	58.3
	25		57.8	57.8
	30		57.4	57.4
	35		56.9	56.9
Top		56.7	56.7	
CM4	1	48.9	58.6	59.1
	5	61.2	67.8	68.6
	10	61.7	67.5	68.5
	15	61.4	67.1	68.1
	20	61.1	66.8	67.8
	25	60.7	66.3	67.4
	30	60.4	66.0	67.0
	35	60.1	65.5	66.6
Top	59.9	65.2	66.4	
CM5	1		58.6	58.6
	5		64.6	64.6
	10	不受現有道路 影響	66.6	66.6
	15	Not affected by existing road	66.5	66.5
	20		66.2	66.2
	25		65.8	65.8
	30		65.5	65.5
	35		65.2	65.2
Top		65.2	65.2	
CM6	1		59.7	59.7
	5		65.8	65.8
	10		66.6	66.6
	15	不受現有道路 影響	66.9	66.9
	20	Not affected by existing road	66.7	66.7
	25		66.4	66.4
	30		66.2	66.2
	35		65.9	65.9
Top		65.9	65.9	
CM7	1		58.9	58.9
	5		64.4	64.4
	10		65.6	65.6
	15	不受現有道路 影響	66.2	66.2
	20	Not affected by existing road	66.1	66.1
	25		65.9	65.9
	30		65.7	65.7
	35		65.5	65.5
Top		65.5	65.5	
CM8	1		57.9	57.9
	5		62.4	62.4
	10		63.6	63.6
	15	不受現有道路 影響	64.9	64.9
	20	Not affected by existing road	65.0	65.0
	25		64.9	64.9
	30		64.7	64.7
	35		64.6	64.6
Top		64.6	64.6	
CM9	1		56.2	56.2
	5		58.9	58.9
	10		61.4	61.4
	15	不受現有道路 影響	61.6	61.6
	20	Not affected by existing road	62.7	62.7
	25		63.0	63.0
	30		62.9	62.9
	35		62.8	62.8
Top		62.8	62.8	

安寧花園交通噪音水平 Traffic Noise Level at On Ning Garden



噪音敏感受體 NSR ID	樓層 Floor	交通噪音水平 (分貝(A)) Traffic Noise level dB(A)		
		現有道路 Existing Road	新路 New Road	總體 Overall
ON1	1		54.9	54.9
	5		57.6	57.6
	10		60.5	60.5
	15	不受現有道路 影響 Not affected by existing road	60.5	60.5
	20		61.7	61.7
	25		61.8	61.8
	30		61.7	61.7
	35		61.6	61.6
	Top	61.5	61.5	
ON2	1	41.0	61.7	61.7
	5	46.2	63.9	63.9
	10	53.9	65.0	65.3
	15	53.5	67.0	67.2
	20	53.4	68.2	68.4
	25	53.5	68.2	68.4
	30	53.8	68.3	68.4
	35	53.6	68.4	68.6
	Top	53.5	68.4	68.6
ON3	1	44.0	60.5	60.6
	5	47.9	61.6	61.7
	10	54.6	62.4	63.1
	15	54.4	65.0	65.3
	20	54.6	66.8	67.1
	25	54.4	67.0	67.2
	30	54.4	67.0	67.3
	35	54.6	67.1	67.4
	Top	54.8	67.2	67.5
ON4	1		58.1	58.1
	5		60.3	60.3
	10		60.3	60.3
	15	不受現有道路 影響 Not affected by existing road	62.1	62.1
	20		63.4	63.4
	25		63.3	63.3
	30		63.2	63.2
	35		63.0	63.0
	Top	62.9	62.9	
ON5	1	43.7	61.9	62.0
	5	50.4	64.5	64.7
	10	55.7	66.2	66.6
	15	55.5	68.5	68.7
	20	55.4	69.2	69.4
	25	55.3	69.5	69.6
	30	55.4	69.4	69.6
	35	55.4	69.5	69.6
	Top	55.5	69.5	69.6
ON6	1	46.4	61.1	61.2
	5	51.6	63.7	64.0
	10	56.3	65.3	65.8
	15	56.4	68.0	68.2
	20	56.5	68.7	69.0
	25	56.9	69.1	69.4
	30	57.6	69.1	69.4
	35	60.1	69.2	69.7
	Top	62.7	69.1	70.0
ON7	1	45.2	60.5	60.6
	5	49.6	63.2	63.4
	10	56.0	64.6	65.1
	15	56.3	67.5	67.8
	20	56.5	68.4	68.7
	25	57.0	68.9	69.2
	30	58.0	68.8	69.2
	35	61.4	68.9	69.6
	Top	61.2	68.9	69.6
ON8	1	47.6	59.3	59.6
	5	50.4	61.4	61.7
	10	56.5	63.1	64.0
	15	57.2	66.4	66.9
	20	58.1	67.1	67.6
	25	59.6	67.6	68.3
	30	65.2	67.5	69.5
	35	65.0	67.5	69.5
	Top	64.8	67.7	69.5
ON9	1	46.7	51.0	52.4
	5	48.8	52.9	54.3
	10	53.9	55.5	57.8
	15	55.7	59.7	61.1
	20	56.3	61.3	62.5
	25	57.1	62.3	63.5
	30	58.3	62.0	63.6
	35	61.1	62.1	64.6
	Top	63.8	62.0	66.0

南豐廣場交通噪音水平 Traffic Noise Level at Nan Fung Plaza

噪音敏感受體 NSR ID	樓層 Floor	交通噪音水平 (分貝(A)) Traffic Noise level dB(A)		
		現有道路 Existing Road	新路 New Road	總體 Overall
NF1	1	57.6	57.0	60.3
	5	60.2	59.6	62.9
	10	66.6	60.3	67.5
	15	66.3	60.6	67.3
	20	66.0	61.3	67.3
	25	65.8	61.4	67.1
	30	65.7	61.4	67.1
	35	65.7	61.4	67.1
NF2	40	66.9	61.5	68.0
	1	58.1	56.1	60.2
	5	62.3	59.9	64.3
	10	66.5	59.9	67.4
	15	66.2	60.1	67.2
	20	65.9	60.9	67.1
	25	65.9	60.9	67.1
	30	67.1	60.9	68.0
NF3	35	66.8	61.0	67.8
	40	66.5	61.2	67.6
	1	58.4		58.4
	5	60.6		60.6
	10	62.8		62.8
	15	62.9	不受新路影響 Not affected by new road	62.9
	20	63.4		63.4
	25	65.6		65.6
NF4	30	67.4		67.4
	35	67.0		67.0
	40	66.7		66.7
	1	56.8		56.8
	5	59.2		59.2
	10	61.7		61.7
	15	62.6	不受新路影響 Not affected by new road	62.6
	20	62.8		62.8
NF5	25	63.4		63.4
	30	65.4		65.4
	35	65.4		65.4
	40	66.8		66.8
	1	56.9	48.1	57.4
	5	59.5	53.0	60.4
	10	63.6	53.5	64.0
	15	63.6	53.8	64.0
NF6	20	63.9	54.0	64.3
	25	64.4	54.1	64.8
	30	66.2	54.0	66.5
	35	67.3	53.9	67.5
	40	67.0	53.8	67.2
	1	57.4	53.1	58.8
	5	63.4	54.8	64.0
	10	63.4	55.5	64.1
NF7	15	63.6	55.9	64.3
	20	64.2	57.0	65.0
	25	66.4	56.7	66.8
	30	67.4	56.2	67.7
	35	67.1	56.3	67.4
	40	66.8	56.1	67.2
	1	65.5		65.5
	5	66.4		66.4
NF8	10	67.5		67.5
	15	67.3	不受新路影響 Not affected by new road	67.3
	20	69.1		69.1
	25	68.6		68.6
	30	68.2		68.2
	35	67.9		67.9
	40	67.6		67.6
	1	65.5		65.5
NF8	5	66.5		66.5
	10	66.4		66.4
	15	67.8	不受新路影響 Not affected by new road	67.8
	20	67.5		67.5
	25	68.6		68.6
	30	68.2		68.2
	35	67.8		67.8
	40	67.5		67.5



圖例 LEGEND :

-  施工範圍
LIMIT OF WORKS AREA
-  易受噪音影響地方的位置/方向
LOCATION/ORIENTATION OF NSR
- ON1 在安寧花園的易受噪音影響地方
NSR 1 AT ON NING GARDEN
- NF1 在南豐廣場的易受噪音影響地方
NSR 1 AT NAN FUNG PLAZA
- CM1 在頌明苑的易受噪音影響地方
NSR 1 AT CHUNG MING COURT
- KL1 在景林邨的易受噪音影響地方
NSR 1 AT KING LAM ESTATE

圖則名稱 drawing title
將軍澳T1/P1/P2分層道路交匯處
易受噪音影響地方的位置
GRADE-SEPARATED INTERCHANGE T1/P1/P2, TSEUNG KWAN O
NOISE SENSITIVE RECEIVER (NSR) LOCATION

繪圖 drawn W K CHUI	簽署 initial <i>WKC</i>	日期 date 20.3.2001
核對 checked C POON	簽署 initial <i>CP</i>	日期 date 20.3.2001
核准 approved K C NG	簽署 initial <i>KCN</i>	日期 date 20.3.2001

比例 scale 1 : 3500	辦事處 office 新界東拓展處 NT EAST DEVELOPMENT OFFICE
繪圖編號 drawing no. TKZ0216	拓展署 TERRITORY DEVELOPMENT DEPARTMENT