建设项目环境影响报告表

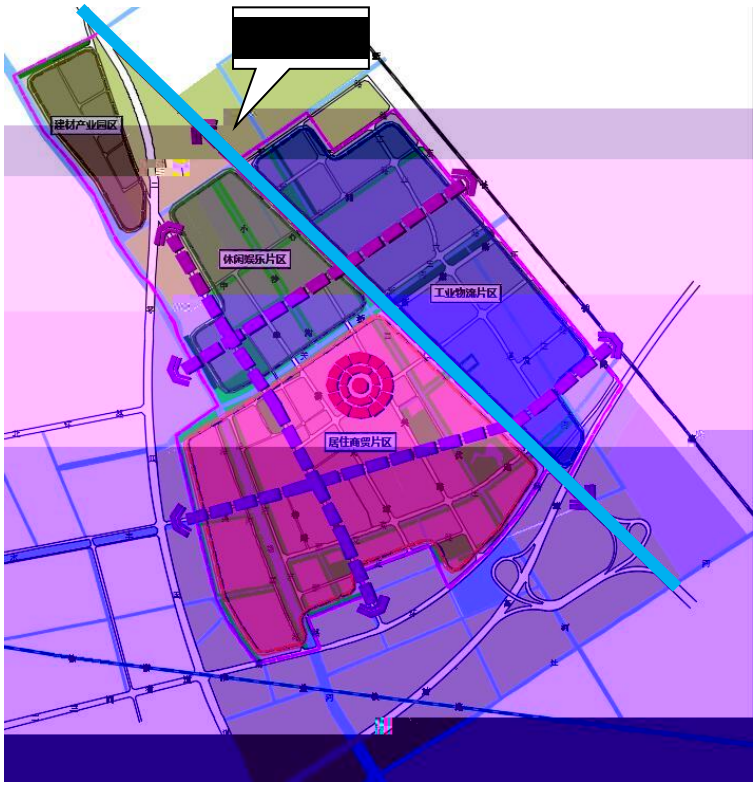
（生态影响类）

项目名称：开放大道（范公路高架至上冈段）提升改造工程

建设单位（盖章）：盐城市快速路网建设有限公司

编制日期：2021 年 11 月

中华人民共和国生态环境部制



1.3-1

G204

2018-2030

1.4 **2018-2030**

1

2

3

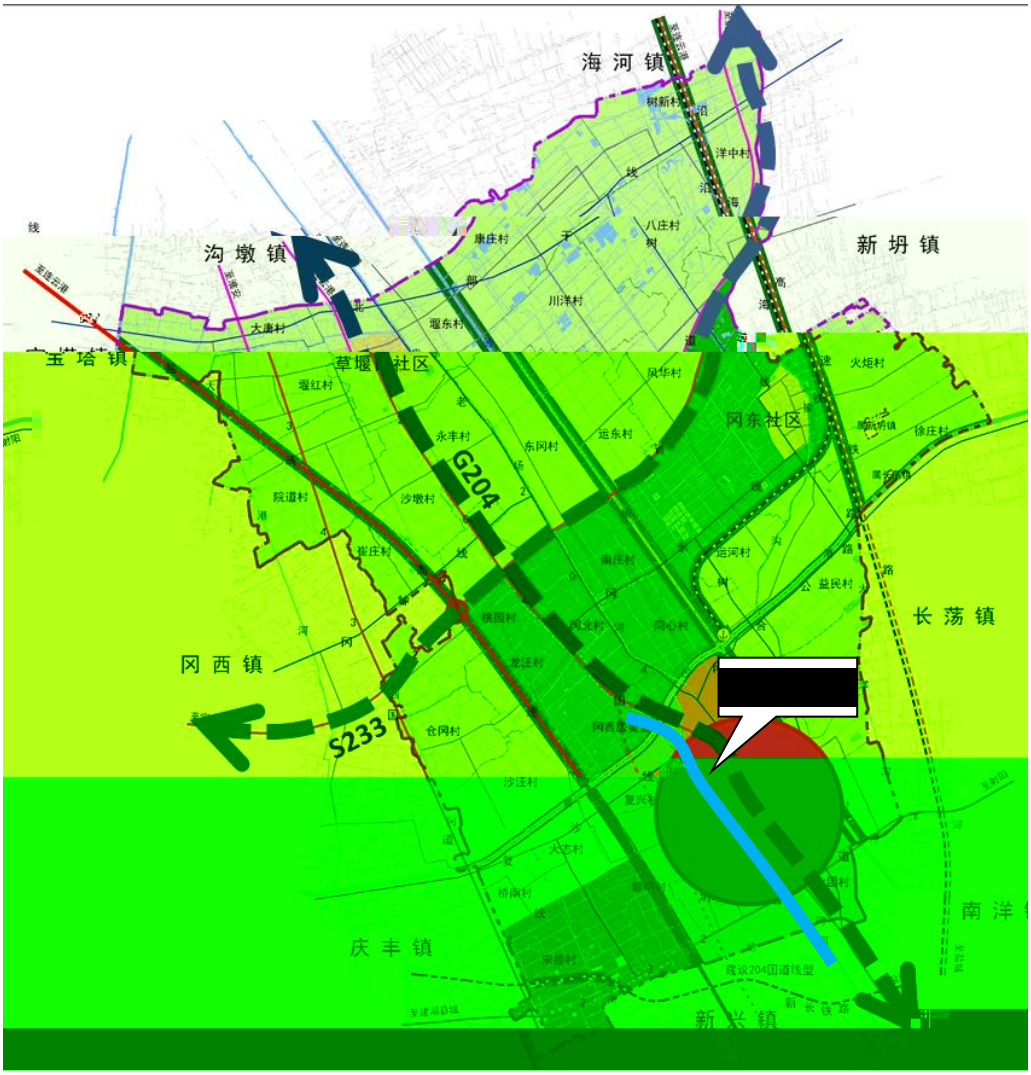
204 233

233 233

4

345 233 232

204 204



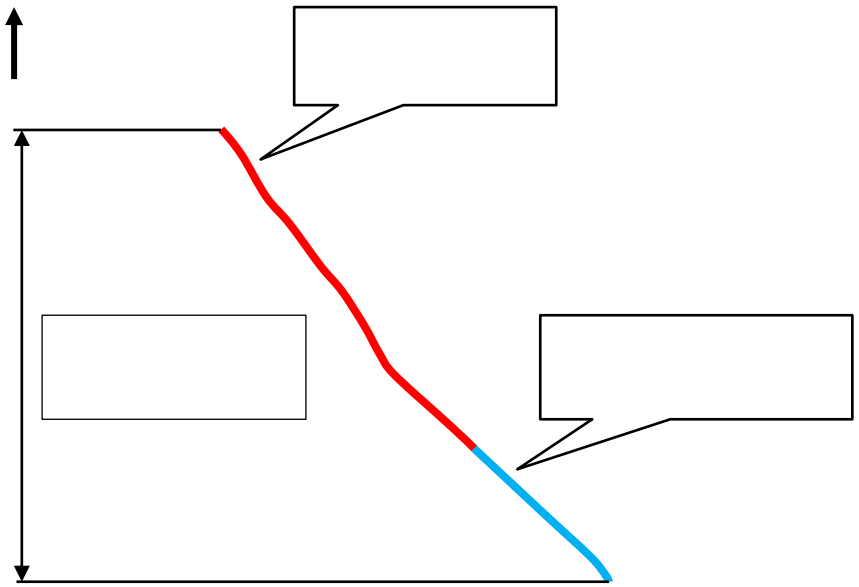
1.4-1

G204

204

G204

2018-2030



2.1-1

204

G204 G204

204

G204

G204 1

G204

2021 131

2 G204

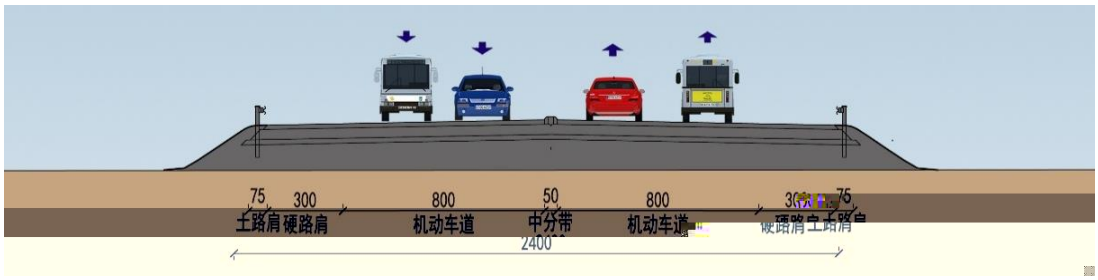
1 G204 S232 K9+050~K13+200

G204 G204 S232

4 24.0m 0.75m

+3.0m +8.0m +0.5m +8.0m +3.0m +0.75m

=24.0m



2.3-2 G204 G204 S232

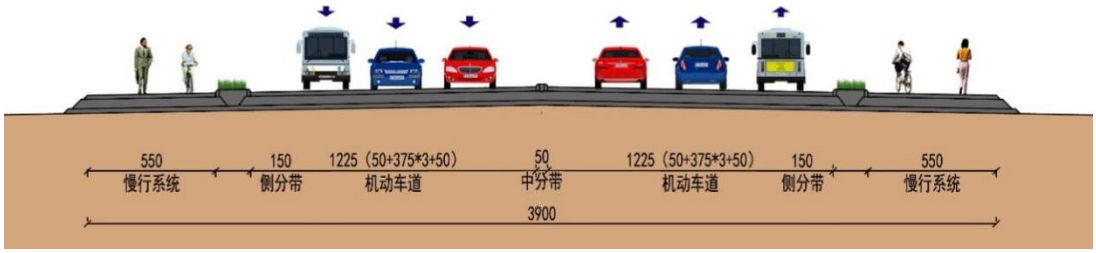
2 S232 K13+200~K17+980

S232 G204

39.0m 5.5m

+1.5m +12.25m +0.5m +12.25m +1.5m +5.5m

=39.0m



2.3-3 G204 S232

3

1 ~ DN300~DN600

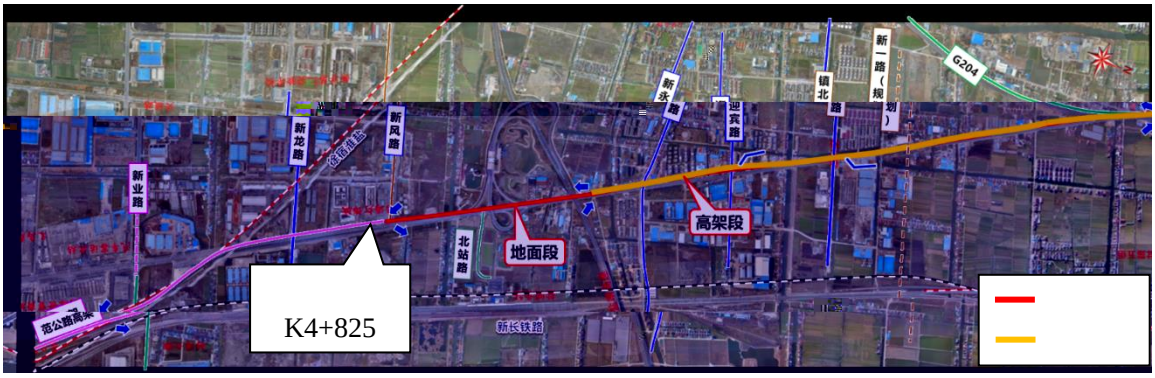
~ DN300

2 ~ DN300

4

16

G204



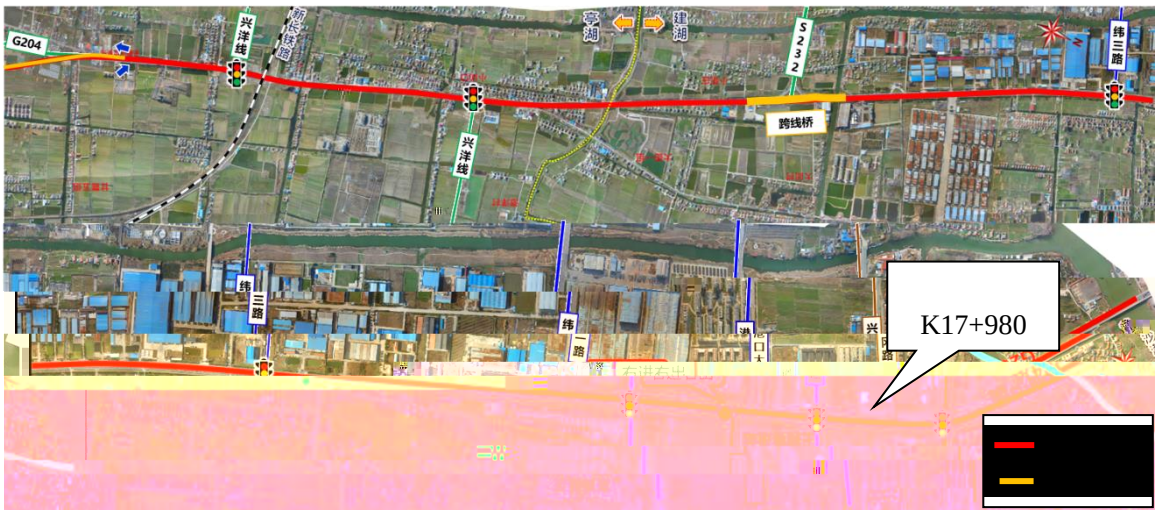
2.5-1

2 G204 G204~ G204

G204 G204

G204 S232

S232



2.5-2 G204

2

1

~G204 K4+825~K9+050

26.1m 0.5m +0.75m

+10.75m +0.75m +0.6m +0.75m

+10.75m +0.75m +0.5m =26.1m

50.0m 3.0m +5.5m

2.5-4

G204- K9+050~K17+980

51.5m 3.0m +5.5m

+1.5m +11.75m +8.0m +11.75m +1.5m

+5.5m +3.0m =51.5m

2.5-5 G204-

2

30cm

10cm

+ 1

1

- 20cm 6% 90%

6% 93% 80cm 6%

95%

- 87%

90% 40cm 6%

92%

90%

87%

30cm 1m

3

20cm 5m

80KN/m 5%

3

1

2.5-2

	(cm)	
	4	SMA-13 SBS
Superpave	8	SUP-20 SBS
	/	PC-1
	36	4.5%
	20	3.0%

2.5-3

	(cm)	
Superpave	4	SUP-13 SBS
Superpave	6	SUP-20
	/	PC-1
	18	4.5%
	20	3.0%

2.5-4

	(cm)
	6
M10	3
C25	15
	15

2

2.5-5

	(cm)		
	4	SMA-13 SBS	98%
	8	SUP-20	98%
	/	/	/
	/	PC-2 0.7 1.5L/m^2	/
		4.5% 7 4.0Mpa	98%
12cm			

3

1m

30cm 2m

2m

4

4

1

-

1 K6+313.058 K9+202.658 2889.6m

2 1 840.7m

- G204

2

2.5-9

1	K5+091.239			T	
2	K5+602.844			T	
3	K6+121.667				
4	K6+490.475				
5	K6+996.209				
6	K7+582.174				
7	K8+319.573				
8	K9+054.669	G204			
9	K10+091.639			T	
10	K11+522.798			T	
11	K15+369.784			T	
12	K15+925.864			T	
13	K16+653.259				
14	K17+006.456			T	
15	K17+355.982				
16	K17+809.094				

7

BRT

500 800m 30 50m

3m 45m BRT 40

8

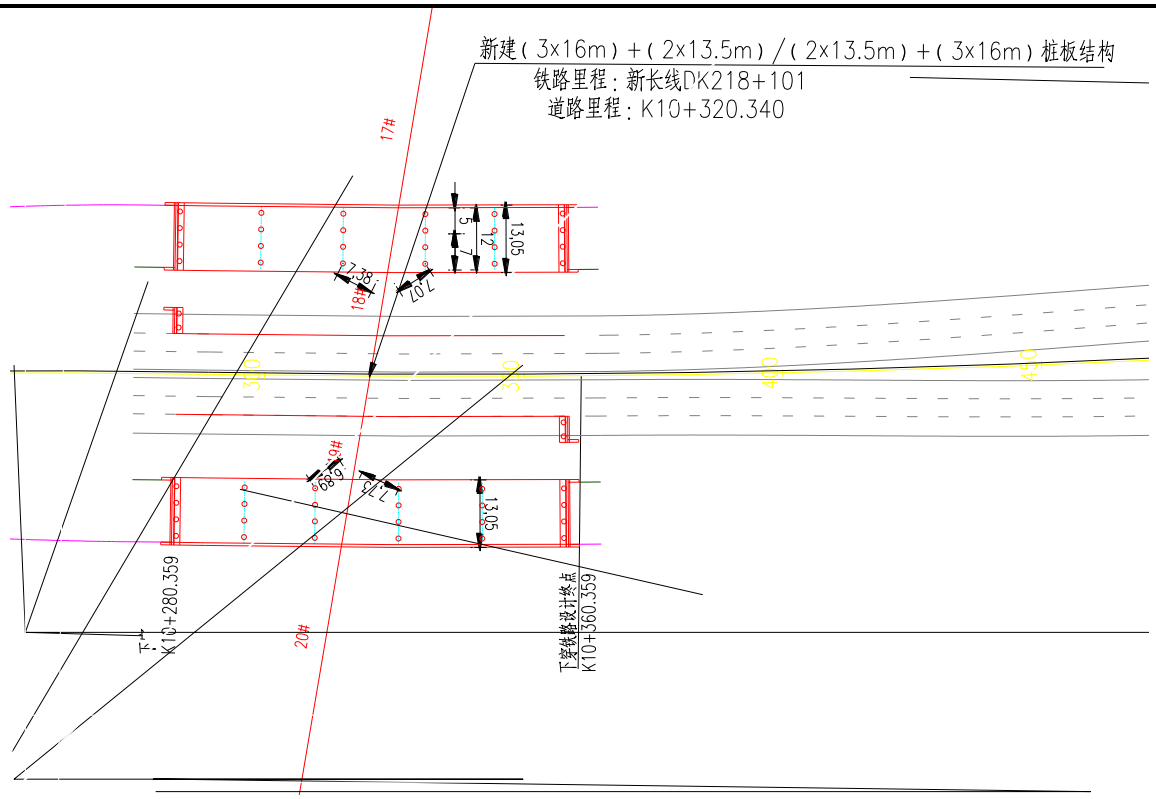
1

81 3 16m +

2 13.5m / 2 13.5m + 3 16m

3 16m + 2 13.5m / 2 13.5m + 3 16m

K10+280.359~ K10+360.359 80m

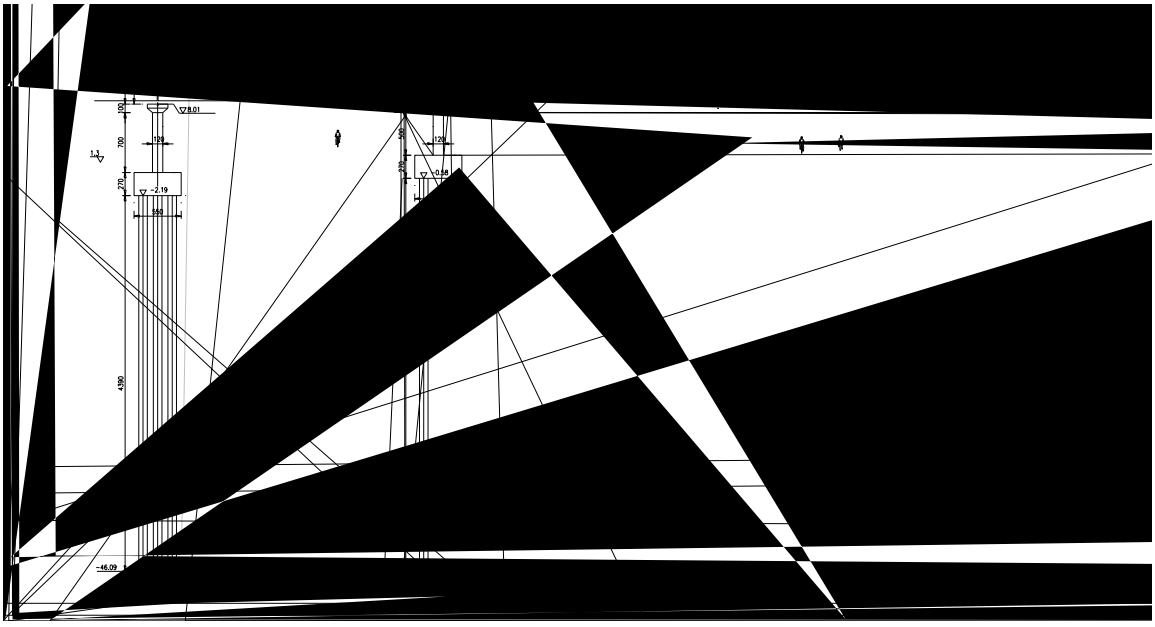


2.5-6

2

G204 5.5m

G204 5m



2.5-7

9

1 GB5768-2009

35cm

GB5768-2009

GB5768-2009

2

3

A

4

2.5.3

1

GB/T21010-2017

757306m^2 380000m^2

230114m^2 166837m^2 495340m^2 31852m^2

2

1

2

3

1 2

2.5-11

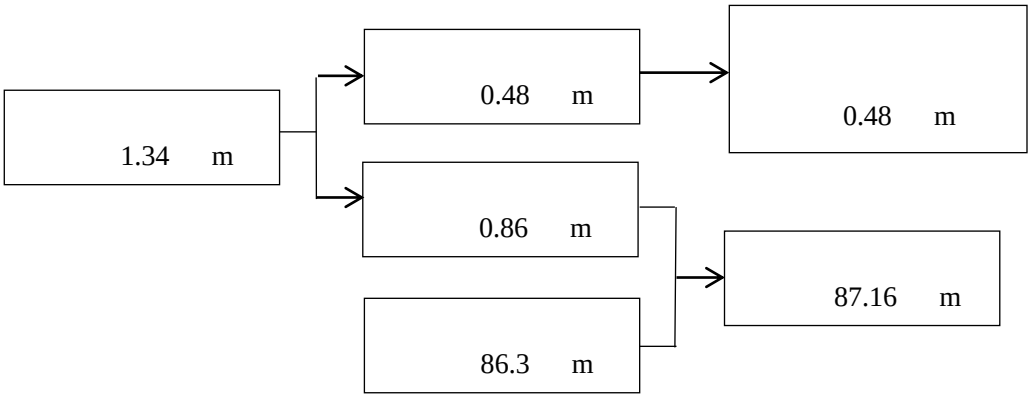
1	K13+400	26		

2.5.4

1

1.34 m 87.16 m 0.86 m 0.48 m 86.3 m

2



2.5-8

2.5.5

2266m^2 4

2.6-1 2.6-2

2.6-1 pcu/d

			(km/h)	2024	2030	2038
~G204	K4+825~K9+050		80	25891	36791	48306
			50	8691	11009	12670
G204~S232	K9+050~K13+450		60	25073	30445	41391
S232~	K13+450~K17+980		60	35032	32964	44810

pcu/h pcu/d 0.11

2.6-2

~G204	2024	85.4%	3.0%	2.7%	1.2%	1.6%	6.2%	100.0%
	2030	87.3%	3.1%	2.5%	1.1%	1.4%	4.6%	100.0%
	2038	89.5%	3.2%	2.4%	0.9%	1.2%	2.8%	100.0%
G204~S232	2024	72.6%	3.3%	4.2%	3.2%	7.9%	8.8%	100.0%
	2030	73.9%	4.1%	4.1%	3.0%	6.7%	8.3%	100.0%
	2038	74.6%	4.6%	3.8%	2.7%	6.3%	8.1%	100.0%
S232~	2024	77.6%	3.8%	3.3%	1.4%	5.9%	7.9%	100.0%
	2030	79.7%	4.6%	3.1%	1.3%	5.4%	5.9%	100.0%
	2038	81.9%	5.5%	2.5%	1.2%	4.1%	4.8%	100.0%

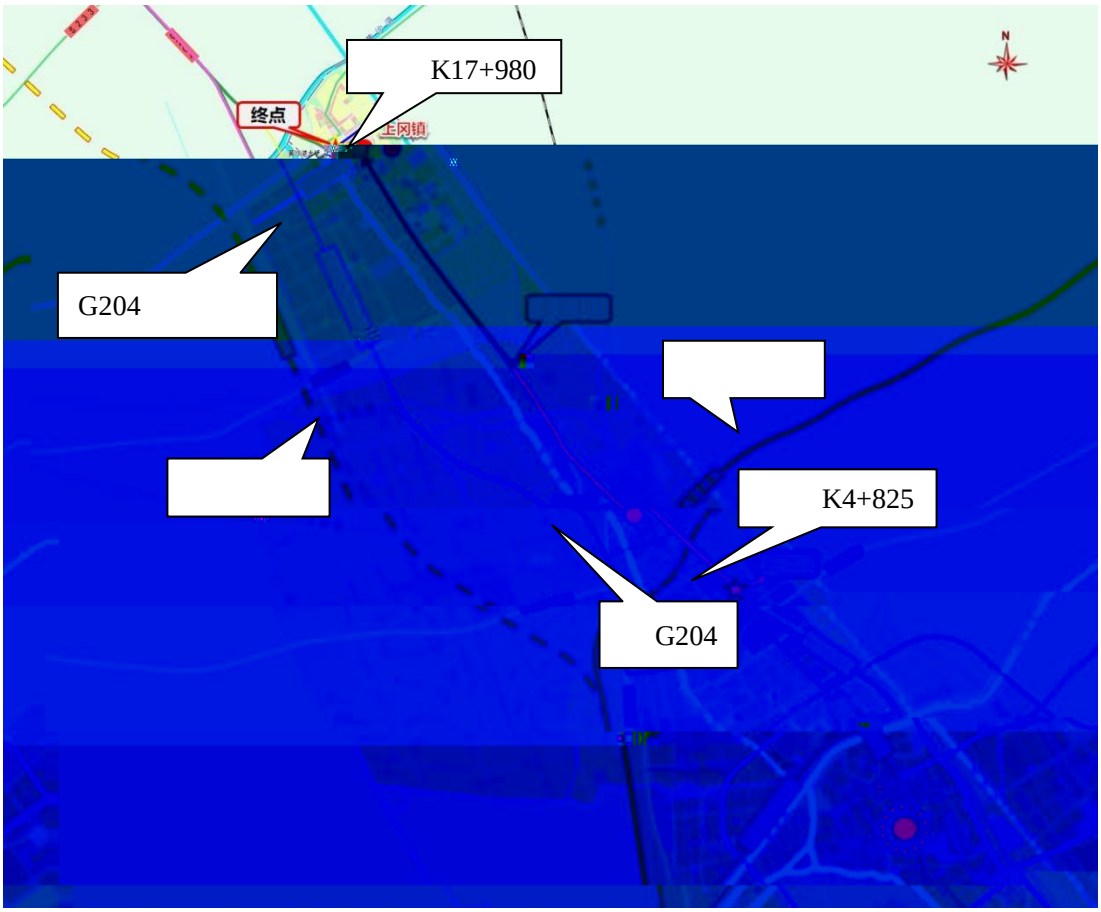
+ G204

G204

13.155

2 2 15 1

242341.85



1

4.5 2

30cm 1m

3

20cm 5m

80KN/m 5%

4

1.0m 3%

40cm 6%

3m

4

5

2

	2021 12 2023 11 24

3.1

I 2-6

2020 1

1

3.2

2020 2020

3.52 $PM_{2.5}$ 33 /

84.2% $PM_{2.5}$

2020 5 / 22

/ PM_{10} 54 / 8 90%

159 / 95% 0.8 /

HJ 2.2-2018 6.4.1

2020 SO_2 NO_2 PM_{10}

$PM_{2.5}$ CO 95% O_3 8 90%

GB3095-2012

3.3

2020 2020

9 34

100% 100% 97.1% 22.2 17.7

11.1 8.9 10

8 20 12

1

2020 9 100%

11.1

2

2020 34 9

33 97.1% 1 2.9%

8.9

2021 5 -2021 7

~

3.3-1

			2021		
			5	6	7

2020 12

3.4

2020 2020

2019

2021 8 21 8 24

2 1

21

4a 9.2dB A 2

4.2dB A 11.7dB A

3

21

4a 9.2dB A

3.5-1

B1		380000m^2	/
B2		K11+635~K12+410 775m 38287m^2	
B3		40m	
B4		550m	

2

16

1 7

2003 29

GB3838-2002

SL63-94

3.5-2

3.5-2 (1)

1	K5+176.775			
2	K5+417.926			
3	K5+974.473			
4	K6+332.000			
5	K6+878.000			
6	K7+332.000			
7	K7+842.000			
8	K8+285.000			
9	K8+723.000			
10	K9+187.000			
11	K10+557.300			
12	K11+389.000			
13	K12+375.000			
14	K13+720.500			
15	K14+764.400	1 7		
16	K15+505.112			

3.5-2 (2)

1	/			2018 3 28
2	K17+750~K17+980			
3	/			

3

GB/T15190-2014

2021 14

2 4a

HJ2.4-2009

35

1.5.2

4

200

3.6

1

2021 14

GB3096-2008

2 4a

GB50118-2010

3.6-3 mg/L

	pH	DO					BOD_5	SS*
	6-9	5	6	1.0	0.2	0.05	4	30

*

3.7

1

GB12523 2011

3.7-1 dB A

70	55

2

DB32/4041-2021 3

3.7-2

		mg/m^3	
1		0.5	
2		0.02	

3.7-3 GB/T18920-2020

1	pH	6.0-9.0	
2	/	15	30
3			
4	/NTU	5	10
5	/ mg/L)	1000	1000
6	BOD_5 / mg/L)	10	10
7	/ mg/L)	5	8
8	/ mg/L)	0.5	0.5
	/(mg/L)	0.3	-
10	/ mg/L)	0.1	-
11	/ mg/L)	2.0	2.0
12	mg/L)	1.0 0.2	1.0 0.2
13	/ CFU/100mL)		

4.1

44m

GB12523 2011 70dB A 210m 55dB A

28m

GB12523 2011 70dB A 136m 55dB A

30m GB12523

2011 70dB A 144m 55dB A

GB12523 2011

70dB A 33m 55dB A

5.4dB A

22:00-6:00

4.2

1

60%

Q kg/km.

V km/hr

W t

P kg/m^2

4 5

70% 4.1-2 4 5

TSP 20

7

4.3

1

1

2

0.1 0.4% <0.1%

SS 1690mg/L 66mg/L

GB8978-1996

<1.0%

3

4

50 100m

GB/T 18920-2020

2

SS

GB/T18920-2020

3

4.4

1

1

1.0kg/ d 180

24 180kg/d 129.6t

2

2479620m^3

3

0.48 m^3

4

2266m^2

0.1m^3 226.6m^3

5

8000m^3

2

4.5

1

I 2-6

2

757306m^2 380000m^2

1 26

3 5

3

326.92t

31.79t

4

5

2020 1

K11+635~K12+410

38287m^2 775m

4.6

4a

63.0dB(A) 8.0dB(A) 2

66.5dB(A)

6.5dB(A) 62.8dB(A) 12.8dB(A)

4.7

1

H 1154mm 4.7-2

$E=C\times H\times L\times B\times a\times 10^{-6}$

E t/a×km

C 60 mg/L

H mm

L 1km

B m

a 0.9

4.7-1

	5-20	20-40	40-60	
SS mg/L	231.42-158.22	158.22-90.36	90.36-18.71	100
BOD_5 mg/L	7.34-7.30	7.30-4.15	4.15-1.26	5.08
mg/L	22.30-19.74	19.74-3.12	3.12-0.21	11.25

4.7-2

	SS	BOD_5	
60 mg/l	100	5.08	11.25
mm	1154		
	0.9		
m	50		
t/a km	5.193	0.264	0.584

4.7-2 SS 5.193t/a BOD_5 0.264t/a 0.584t/a

2

1

2

30 30

2%

4.8

1

JTGB03 2006

$$Q_j = \sum_{i=1}^{3} 3600^{-1} A_i E_{ij}$$

Q_i j mg/s.m

A_i i /h

E_{ij} i j

mg/(m)

2014 92 3

(

4.8-1

mg/m ·

(km/h)		<20	20-30	30-40	40-80	>80
	CO	2.39	1.78	1.12	0.55	0.88
	NO_2	0.13	0.11	0.09	0.08	0.09
	CO	5.48	4.08	2.56	1.26	2.01

NO_2 W* n n /P

Q_5 0.1

Q_6 km 13.155km

4.10-1

4.10-1 /

	km	P		
		2024	2030	2038
	13.155	3.11E-05	3.4E-05	2.994E-05

4.10-1

0.0003 /

10%

3

~

4.10-2

7.6×10^{-4} /a

4.10-2

	3.21×10^{-3} /( )	4000m	5.9% ( )	7.6×10^{-4} /a

CO

	3
	2013-2030 K11+635~K12+410 38287m^2 775m

5.1

1

2 200m

22:00-6:00

3

4

5

6

5.2

2016 69

1

2

3

2

1

2

SS

3

4

GB/T 18920-2020

5.4

1

2

	3 **5.5**
	5.6 3.5m **5.7** 1 2 3 4 **5.8** 1

5.9

5.10

5.10-1

	N1 N10 N22 1 N23 2 N31	L_{Aeq}	4 / 1	2	
	N2 N6 N13 N23 2 N27 N31	L_{Aeq}	1 / 1	GB3096-2008	

5.10-2

5.11

5.11-1

		20		
		10		
		200		
		30		
		24		
		35		
		55		
	3.5m 3011m	1204.4		
	1022 30660m^2	3066		
		110		
		160		
		200		
		20		

20

1 1

1.1 1

1.2 1

1.3 1

1.4 1

1.5 2

1.6 15

2 16

2.1 16

2.2 18

3 18

4 32

4.1 32

4.2 32

4.3 66

5 68

5.1 68

5.2 68

6 82

6.1 82

6.2 82

6.3 82

6.4 83

※ 1.2-1)¥WAÎ

	A L_{Aeq}	

1.2.2 Â

1

GB12523 2011

※ 1.2-2 Î%+)¥WÄL$)Ö dBÄ AÅ

70	55

2

GB/T15190-2014

1 4a

4a

4a

2 40

2 4a

2 60dB(A)

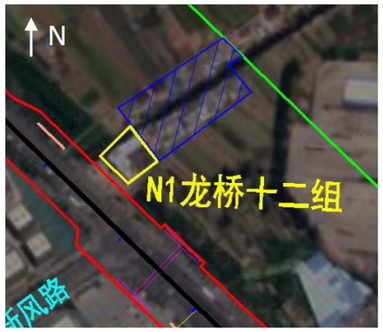
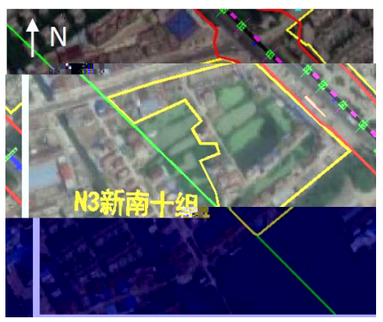
50dB(A)

GB50118-2010

45dB(A) 37B(A) 45dB(A)

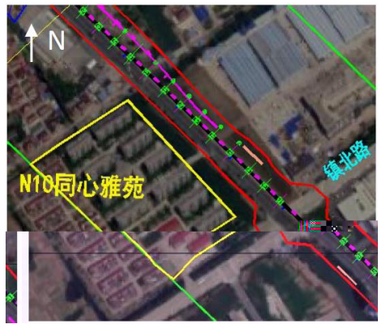
1.2-3

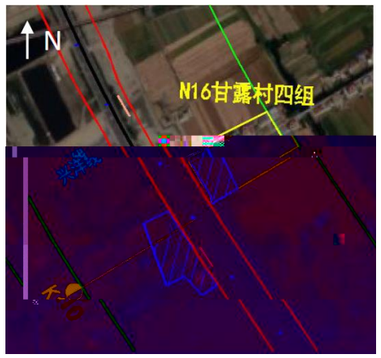
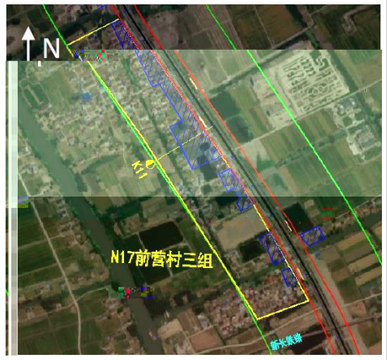
※ 1.5-1 Ä)₩±,

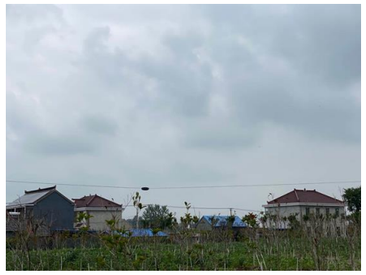
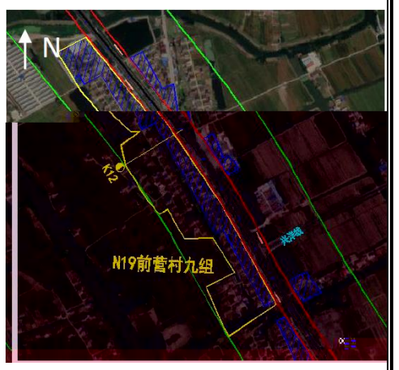
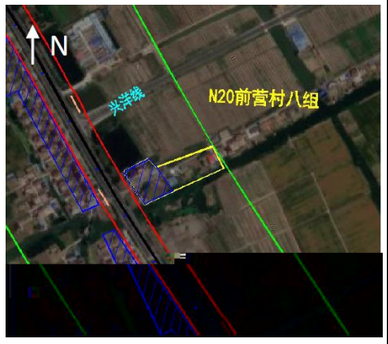
						/	/m			/	/m			200m	
N1		K5+125 ~K5+190		3		43/25	0	4a		43/14	1	4a	2 /8		
						60/40		2		60/30		2	1 /4		
N2		K6+350~ K6+485		6		44/21	0	4a		44/12	9 0	4a	48 /192		
						73/52		2		73/41		2	240 /960		
N3		K6+335~ K6+595		1~3		47/26	0	4a		47/15	9 0	4a	20 /80		
						80/57		2		80/48		2	30 /120		

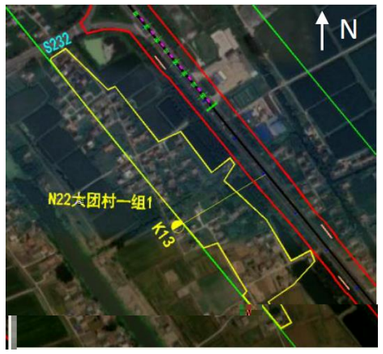
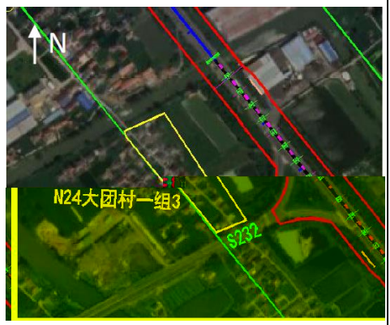
						/	/m			/	/m				200m
N4		K6+555~ K6+650		4		35/23	0	4a		35/12	90	4a	3 /12	
						68/55		2		68/45		2	36 /144		
N5		K6+660~ K6+830		6		42/27	0	4a		42/17	100	4a	48 /192		
						72/56		2		72/46		2	152 /608		
N6		K7+030~ K7+240		17		45/26	0	4a		45/15	110	4a	128 /512		
						73/53		2		73/44		2	72 /288		

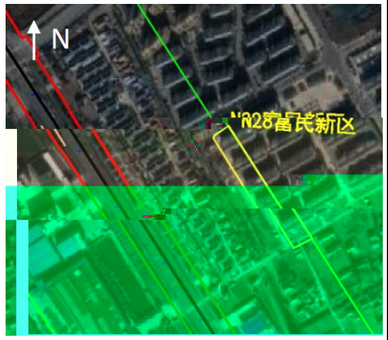
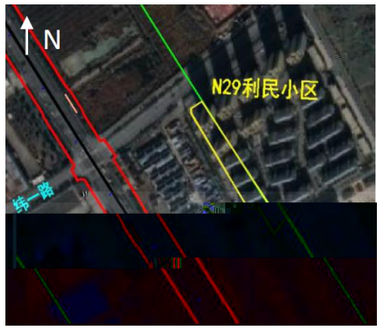
						/	/m			/	/m			200m	
N7		K7+040~ K7+135		4~6		153/131	0	2		153/121	11 0	2	104 /416		
N8		K7+140~ K7+290		3		113/89	0	2		113/78	11 0	2	176		

							/	/m			/	/m			200m		
N10		K7+635~ K7+875		6			57/42	0	4a		57/31	11 0	4a	24 /96			
							76/60		2		76/49		2	216 /864			
N11		K7+875~ K8+825		G204		1~2	37/19	0	4a		37/8	11 0					

						/	/m			/	/m			200m	
N16		K10+005~ K10+080	G204	2		G204 81/66	0	2		81/56	0	2	18 /72		
N17		K10+430~ K11+400	G204	2~3		G204 41/22 G204 76/57	0	4a 2		41/12 76/46	0	4a 2	4 /16 120 /480		
N18		K10+570~ K10+605	G204	1~2		G204 94/79	0	2		94/68	0	2	13 /52		

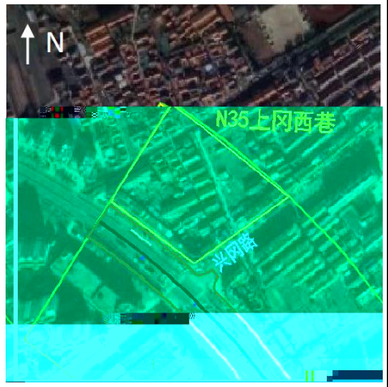
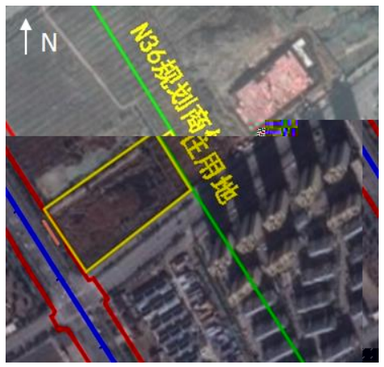
						/	/m			/	/m			200m	
N19		K11+420~ K12+280	G204	2		G204 66/48	0	4a		66/37	0	4a	10 /40		
						G204 80/64		2		80/52		2	50 /200		
N20		K11+385~ K11+470	G204	2		G204 100/84	0	2		100/73	0	2	6 /24		
N21		K11+820~ K12+340	G204	2		G204 53/35	0	4a		53/24	0	4a	4 /16		
						G204 72/57		2		72/45		2	40 /160		

						/	/m			/	/m			200m	
N22	1	K12+730~ K13+460	G204	1~2		G204 44/27	0	4a		44/16	0	4a	8 /32		
						G204 102/85		2		102/72		2	55 /220		
N23	2	K12+565~ K13+130	G204	1~2		G204 37/20	0	4a		37/9	0	4a	25 /100		
						G204 70/55		2		70/42		2	35 /140		
N24	3	K13+500~ K13+735	S232 G204	S232 1		G204 150/86 S232 24/14	0	4a		150/75	0	4a	2 /8		
						G204 150/86 S232 55/45		2		150/75		2	14 /56		

															200m
N28		K16+215~ K16+425		6		G204 177/160	0	2		177/149	0	2	100 /400	
N29		K16+425~ K16+645		6		G204 174/158	0.1	2		174/145	0.1	2	96 /384	
N30		K17+040~ K17+255	G204	6		G204 49/35	0	4a		49/23	0	4a	48 /192	
						G204 74/57		2		74/47		2	168 /672	

						/	/m			/	/m			200m

N31 [redacted]

						/	/m			/	/m				200m
N34		K17+840~ K17+980	G204	G204		G204 62/46	0	4a		62/35	0	4a	16 /64		
						G204 73/60		2		73/47		2	144 /576		
N35		K17+820~ K17+980	G204	G204 2		G204 43/29	0	4a		43/17	0	4a	8 /32			
						G204 74/56		2		74/45		2	30 /120		
N36		K16+690~ K17+800	G204	G204		G204 39/19 39/14	0	4a		39/12	0	4a	/		
						G204 68/48 39/14	0	2		68/41		2	/		

1.6

1.6-1

※ 1.6-1 A

1 20

2.1

1

2.1-1

2.1-2

※ 2.1-1 NM,ÂEG£ Ä aÅ)Ö pcu/d

			(km/h)	2024	2030	2038
~G204	K4+825~K9+050		80	25891	36791	48306
			50	8691	11009	12670
G204~S232	K9+050~K13+450		60	25073	30445	41391
S232~	K13+450~K17+980		60	35032	32964	44810

pcu/h pcu/d 0.11

※ 2.1-2 N

.j ² ² j JTG

B01-2014 3.3.2 1

1.5 2.5 4 JTG B03-2006

C C.1.1-2 2.1-3

j ² ² j %

※ 2.1-3 Ø:2Ó@

	3.5t	
	3.5t ~12t	
	12t	

/h

$N_{h,j(d)}$ $N_{d,j}$ J_d /16 $N_{h,j(n)}$ $N_{d,j}$ ~ (1 J_d)/8

$N_{h,j(d)}$ ² ² j /h

$N_{h,j(n)}$ ² ² j /h

d ² ² 16

0.85 0.8

2.1-4

※ 2.1-4 NM,Â 4“ Ø%,XÊ£G£)ÖZ /h

			2024		2030		2038	
~G204			984	347	1490	526	2100	741
			13	6	17	9	20	10
			113	57	141	71	154	77
			330	117	446	157	551	194
			4	2	5	3	5	3
			38	19	42	21	40	20
G204~S232			724	255	911	321	1256	443
			28	14	33	16	40	20
			177	89	209	105	286	143
S232~			1112	393	1126	397	1621	572
			18	9	16	8	22	11
			229	115	204	102	261	130

NJ6-1	K7+120		2 4 6 10 17 26			20min
NJ6-2	K7+120		2 4 6 10 17 53			20min
NJ7	K7+050		2 4 10			20min
NJ8-1	K7+650		2 4 6 38 42			20min
NJ8-2	K7+650		2 4 6 52 60			20min
NJ8-3	K7+650		1 180			20min
NJ9-1	K8+800		1 19 G204 76			20min
NJ9-2	K8+810		1 55 G204 41			20min
NJ10-1	K9+100		1 77 G204 25			20min
NJ10-2	K9+100		1 107 , G204 41			20min
NJ10-3	K9+100		1 150			20min
NJ10-4	K8+750		G204 1 G204 15			20min
NJ11-1	K10+050		1 G204 23			20min
NJ11-2	K10+050		1 G204 52			20min
NJ11-3	K10+050		1 G204 168			20min
NJ12-1	K10+450		1 G204 22 102			60min
NJ12-2	K10+450		1 G204 57 100		2	60min
NJ12-3	K10+450		1 G204 169 92	L_{Aeq} L_{10} L_{50} L_{90} L_{max} L_{min}	1	60min
NJ13	K11+120		G204 20 40 80 120 200			20min
NJ14-1	K11+950		1 G204 48			20min
NJ14-2	K11+950		1 G204 64			20min

NJ14-3	K11+950		1 G204 180			20min
NJ15-1	K13+060	1	1 G204 27			20min
NJ15-2	K13+080	1	1 G204 85			20min
NJ15-3	K13+080	1	1 G204 160			20min
NJ16-1	K13+500	3	S232 1 S232 14			20min
NJ16-2	K13+510	3	S232 1 S232 45			20min
NJ17-1	K14+900		1 G204 27			20min
NJ17-2	K14+900		1 G204 51			20min
NJ17-3	K14+900		1 G204 180			20min
NJ18-1	K16+620		1 G204 33			20min
NJ18-2	K16+620		1 G204 57			20min
NJ19	K16+620		1 G204 160		2	20min
NJ20-1	K17+080		2 4 6 G204 34	L_{Aeq} L_{10} L_{50} L_{90} L_{max} L_{min}	1	20min
NJ20-2	K17+080		2 4 6 G204 57			20min
NJ20-3	K17+080		1 G204 160			20min
NJ21-1	K17+850		1 G204 29			20min
NJ21-2	K17+850		1 G204 56			20min
NJ21-3	K17+850		1 G204 160			20min

3.2

2020 2020

2019

(GB/T 15190-2014)

[2021]14

GB3096-2008 4a 2

A

A 3.2-1

※ 3.2-1 NM,ÂÆW)(„Š)Ö dB(A)

					LAeq		
NJ1-1		1 (25)	2021.8.23		63.2	70	-
					56.7	55	1.7
			2021.8.24		63.5	70	-
					56.9	55	1.9
NJ1-2		1 (40)	2021.8.23		58.1	60	-
					50.2	50	0.2
			2021.8.24		58.6	60	-
					50.5	50	0.5
NJ1-3		1 184	2021.8.23		51.2	60	-
					45.3	50	-
			2021.8.24		51.4	60	-
					45.7	50	-
NJ2		1 113	2021.8.23		50.5	60	-
					45.1	50	-
			2021.8.24		50.9	60	-
					45.7	50	-
NJ3-1-1		1 21	2021.8.23		60.3	70	-
					54.2	55	-
			2021.8.24		60.5	70	-
					54.3	55	-
NJ3-1-2		3 21	2021.8.23		62.2	70	-
					56.4	55	1.4
			2021.8.24		62.6	70	-
					56.7	55	1.7
NJ3-1-3		6 21	2021.8.23		64.3	70	-
					57.5	55	2.5
			2021.8.24		64.7	70	-
					57.9	55	2.9
NJ3-2-1		1 52	2021.8.23		55.4	60	-
					50.3	50	0.3
			2021.8.24		55.7	60	-
					50.5	50	0.5
NJ3-2-2		3 52	2021.8.23		59.9	60	-
					53.1	50	3.1
			2021.8.24		60.3	60	0.3
					53.3	50	3.3
NJ3-2-		6	2021.8.23		61.4	60	1.4

					LAeq		
					54.6	55	-
NJ6-1-3		6	2021.8.21		62.1	70	-
					58.1	55	3.1
		26	2021.8.22		62.5	70	-
					58.7	55	3.7
NJ6-1-4		10	2021.8.21		61.7	70	-
					56.4	55	1.4
		26	2021.8.22		61.2	70	-
					56.0	55	1
NJ6-1-5		17	2021.8.21		60.2	70	-
					55.5	55	0.5
		26	2021.8.22		60.9	70	-
					55.3	55	0.3
NJ6-2-1		2	2021.8.21		54.0	60	-
					49.2	50	-
		53	2021.8.22		54.6	60	-
					49.7	50	-
NJ6-2-2		4	2021.8.21		55.4	60	-
					50.3	50	0.3
		53	2021.8.22		55.9	60	-
					50.6	50	0.6
NJ6-2-3		6	2021.8.21		59.1	60	-
					53.4	50	3.4
		53	2021.8.22		59.4	60	-
					53.9	50	3.9
NJ6-2-4		10	2021.8.21		58.2	60	-
					52.6	50	2.6
		53	2021.8.22		58.6	60	-
					52.1	50	2.1
NJ6-2-5		17	2021.8.21		56.5	60	-
					51.7	50	1.7
		53	2021.8.22		56.2	60	-
					51.3	50	1.3
NJ7-1		2 10	2021.8.21		52.9	70	-
					47.5	55	-
			2021.8.22		53.2	70	-
					47.9	55	-
NJ7-2		4 10	2021.8.21		54.6	70	-
					49.3	55	-
			2021.8.22		54.9	70	-
					49.8	55	-
NJ8-1-1		2	2021.8.23		56.7	70	-
					50.4	55	-
		38 40	2021.8.24		56.4	70	-
					50.2	55	-
NJ8-1-		4	2021.8.23		59.8	70	-

					LAeq		
2		38 42			52.5	55	-
			2021.8.24		59.5	70	-
					52.3	55	-
NJ8-1-3		6 38 42	2021.8.23		57.5	70	-
					51.1	55	-
			2021.8.24		57.2	70	-
					51.0	55	-
NJ8-2-1		2 52 60	2021.8.23		52.9	70	-
					47.3	55	-
			2021.8.24		52.7	70	-
					46.9	55	-
NJ8-2-2		4 52 60	2021.8.23		55.1	70	-
					50.6	55	-
			2021.8.24		54.8	70	-
					50.2	55	-
NJ8-2-3		6 52 60	2021.8.23		54.3	70	-
					48.8	55	-
			2021.8.24		54.2	70	-
					48.5	55	-
NJ8-3		1 180	2021.8.23		55.0	60	-
					49.5	50	-
			2021.8.24		54.7	60	-
					49.1	50	-
NJ9-1		1 19 G204 76	2021.8.21		57.7	70	-
					53.6	55	-
			2021.8.22		57.4	70	-
					53.3	55	-
NJ9-2		1 55 G204 41	2021.8.21		59.8	70	-
					54.9	55	-
			2021.8.22		59.2	70	-
					54.3	55	-
NJ10-1		1 77 G204 25	2021.8.21		66.9	70	-
					63.3	55	8.3
			2021.8.22		66.6	70	-
					62.7	55	7.7
NJ10-2		1 107 G204 41	2021.8.21		59.1	60	-
					54.2	50	4.2
			2021.8.22		58.7	60	-
					53.7	50	3.7
NJ10-3		1 150	2021.8.21		51.3	60	-
					45.6	50	-
			2021.8.22		51.0	60	-
					45.3	50	-
NJ10-4		G204 1 G204 15	2021.8.21		65.9	70	-
					62.1	55	7.1
			2021.8.22		65.4	70	-

					LAeq		
					61.8	55	6.8
NJ11-1		1 G204 23	2021.8.21		62.6	70	-
					57.4	55	2.4
			2021.8.22		62.4	70	-
					58.8	55	3.8
NJ11-2		1 G204 52	2021.8.21		57.8	60	-
					53.5	50	3.5
			2021.8.22		57.5	60	-
					53.1	50	3.1
NJ11-3		1 G204 168	2021.8.21		51.2	60	-
					46.7	50	-
			2021.8.22		50.8	60	-
					46.5	50	-

1

NJ12-1

					LAeq		
		G204 48			52.8	55	-
			2021.8.22		58.6	70	-
					55.6	55	0.6
NJ14-2		1 G204 64	2021.8.21		56.4	60	-
					52.8	50	2.8
			2021.8.22		55.8	60	-
					52.4	50	2.4
NJ14-3		1 G204 180	2021.8.21		50.1	60	-
					44.6	50	-
			2021.8.22		49.9	60	-
					44.1	50	-
NJ15-1		1 G204 27	2021.8.21		60.2	70	-
					57.6	55	2.6
			2021.8.22		61.3	70	-
					58.5	55	3.5
NJ15-2	1	1 G204 85	2021.8.21		52.7	60	-
					48.3	50	-
			2021.8.22		53.5	60	-
					48.8	50	-
NJ15-3		1 G204 160	2021.8.21		51.7	60	-
					49.4	50	-
			2021.8.22		48.7	60	-
					47.6	50	-
NJ16-1		S232 1 S232 14	2021.8.21		60.1	70	-
					56.4	55	1.4
			2021.8.22		60.6	70	-
					56.7	55	1.7
NJ16-2	3	S232 1 S232 45	2021.8.21		57.5	60	-
					52.7	50	2.7
			2021.8.22		58.2	60	-
					53.3	50	3.3
NJ17-1		1 27	2021.8.21		63.6	70	-
					58.7	55	3.7
			2021.8.22		63.5	70	-
					58.5	55	3.5
NJ17-2		1 G204 51	2021.8.21		59.8	60	-
					55.4	50	5.4
			2021.8.22		58.4	60	-
					54.7	50	4.7
NJ17-3		1 G204 180	2021.8.21		48.2	60	-
					43.9	50	-
			2021.8.22		47.5	60	-
					43.2	50	-
NJ18-1		1 G204 33	2021.8.21		63.0	70	-
					58.1	55	3.1
			2021.8.22		62.0	70	-

1 40

4.1 б

4.1.1 [illegible]

4.1-1

表 4.1-1 [illegible]

	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]

4.1.2

$$L_p \quad L_{p_0} \quad 20\lg\frac{r}{r_0}$$

L_p r dB(A)

L_{p0} r_o dB(A)

4.1-2

4.1-3

GB12523-2011

6.6dB(A) 21.6dB(A)

GB12523-2011 5.6dB(A)

2

9dB A

 4.1-2 ()Ö dB(A))

	×1	74.4	70	55	4.4	19.4
	×1					
	×1	76.6	70	55	6.6	21.6
	×1					
	×1	72.1	70	55	2.1	17.1
	×1					
	×1	58.6	70	55		3.6
	×2	60.6	70	55		5.6
	×1	72.7	70	55	2.7	17.7

	×1					
	×1	57.6	70	55		2.6

※ 4.1-3)Ö dB(A)

	5m	m									
		20	30	40	60	80	120	140.0	160.0	180.0	200.0
	90	78.0	74.4	71.9	68.4	65.9	62.4	61.1	59.9	58.9	58.0
	92	80.0	76.4	73.9	70.4	67.9	64.4	63.1	61.9	60.9	60.0
	86	74.0	70.4	67.9	64.4	61.9	58.4	57.1	55.9	54.9	54.0
	83	71.0	67.4	64.9	61.4	58.9	55.4	54.1	52.9	51.9	51.0
	74	62.0	58.4	55.9	52.4	49.9	46.4	45.1	43.9	42.9	42.0
	75	63.0	59.4	56.9	53.4	50.9	47.4	46.1	44.9	43.9	43.0
	74	62.0	58.4	55.9	52.4	49.9	46.4	45.1	43.9	42.9	42.0
	85	73.0	69.4	66.9	63.4	60.9	57.4	56.1	54.9	53.9	53.0
	90	78.0	74.4	71.9	68.4	65.9	62.4	61.1	59.9	58.9	58.0
	87	75.0	71.4	68.9	65.4	62.9	59.4	58.1	56.9	55.9	55.0

4.1.3

4.1-2

4.1-4

44m

GB12523 2011 70dB A 210m 55dB A

28m GB12523 2011

70dB A 136m 55dB A 30m

GB12523 2011 70dB A

144m 55dB A

GB12523 2011 70dB A 33m

55dB A

5.4dB A

22:00-6:00

300m

※ 4.1-4)Ö dB(A)

	m						
	25	70	55	75.4	71.4	72.0	57.8
	30	70	55	73.4	69.4	70.0	55.9
	40	70	55	70.5	66.5	67.1	52.9
	66	70	55	65.6	61.7	62.2	48.1
	80	70	55	63.8	59.9	60.4	46.3
	100	70	55	61.8	57.8	58.4	44.2
	120	70	55	60.1	56.1	56.7	42.6
	140	70	55	58.7	54.7	55.3	41.1
	160	70	55	57.4	53.4	54.0	39.9
	200	70	55	55.3	51.4	52.0	37.8

4.2

1

HJ2.4-2009 A.2

HJ2.4-2009 A.2

HJ2.4-2009 A.2

1 i

$$L_{eq}(h)_i \quad (\overline{L_{OE}})_i \quad 10\lg(\frac{N_i}{V_i T}) \quad 10\lg(\frac{7.5}{r}) \quad 10\lg(\frac{{}_1 /, {}_2}{S})^{/} \quad L \quad 16$$

$L_{eq}(h)_i$ ² ² i dB(A)

$(L_{OE})_i$ i V_i km/h 7.5m A dB(A)

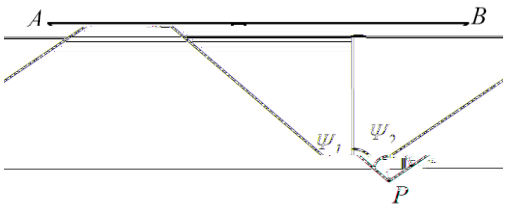
N_i i /h

r m r 7.5m

V_i i km/h

T T=1h

1 2 4.2-1



Ò 4.2-1 A-B P

ΔL dB(A)

$$' L' \quad ' L_1' \quad L_2 \quad L_3$$

$$' L_1' \quad L' \quad L$$

$$' L_2 \quad A_{atm} \quad A_{gr} \quad A_{bar} \quad A_{misc}$$

ΔL_1 dB(A)

ΔL dB(A)

ΔL dB(A)

ΔL_2 dB(A)

ΔL_3 dB(A)

2

$$L_{eq}(T) \quad 10\lg(10^{0.1L_{eq}(h)} \quad 10^{0.1L_{eq}(h)} \quad 10^{0.1L_{eq}(h)})$$

2

1

2.2-2

2 ΔL_1

a) ΔL

û /

' L 98 E dB(A)

' L 73 E dB(A)

' L 50 E dB(A)

2 2 %.

b) ΔL

4.2-1

※ 4.2-1 CM6 G£ dB(A)

	km/h		
	30	40	•
	0	0	0
	1.0	1.5	2.0

$(\overline{L_{OE}})$i

3 û /2

a) A_{bar}

A_{bar}

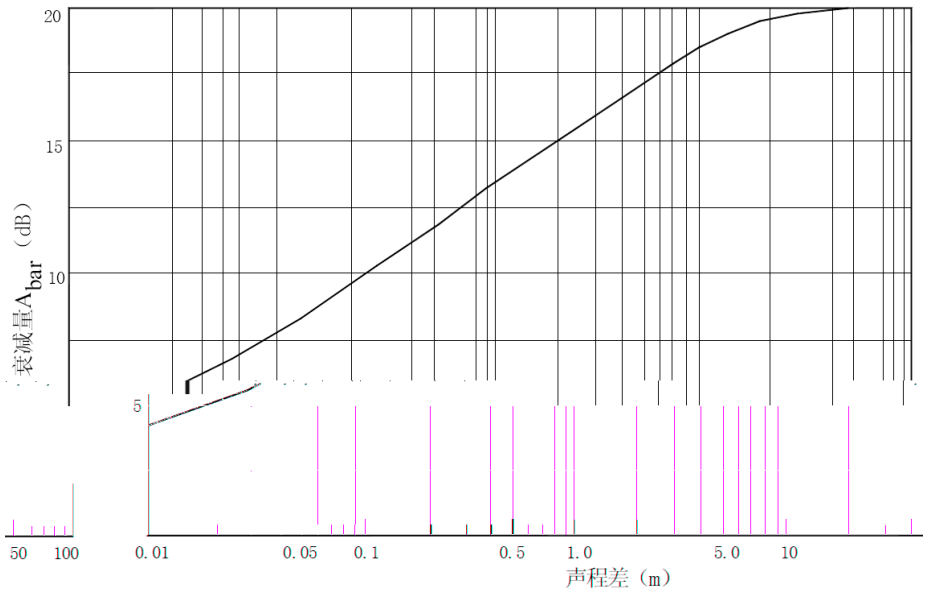
$$A_{bar} \begin{cases} -10\lg\left[\dfrac{3\sqrt{1-t^2}}{4arctg\sqrt{\dfrac{1-t}{1+t}}}\right] & t \quad \dfrac{40f}{3c} \quad 1 \quad dB \\ -10\lg\left[\dfrac{3\sqrt{t^2-1}}{2\ln(t+\sqrt{t^2-1})}\right] & t \quad \dfrac{40f}{3c} \quad 1 \quad dB \end{cases}$$

f 2 2 Hz f=500Hz

/ 2 2 m

c 2 2 m/s

A_{bar} 4.2-2 A_{bar}



Ò 4.2-4 Ä£ Abar Ä /Â / G2Ï Æ4“ Äf=500HzÅ

4.2-5 4.2-2

Ò 4.2-5 L£1k/Ò

※ 4.2-2 Ä£1kG£

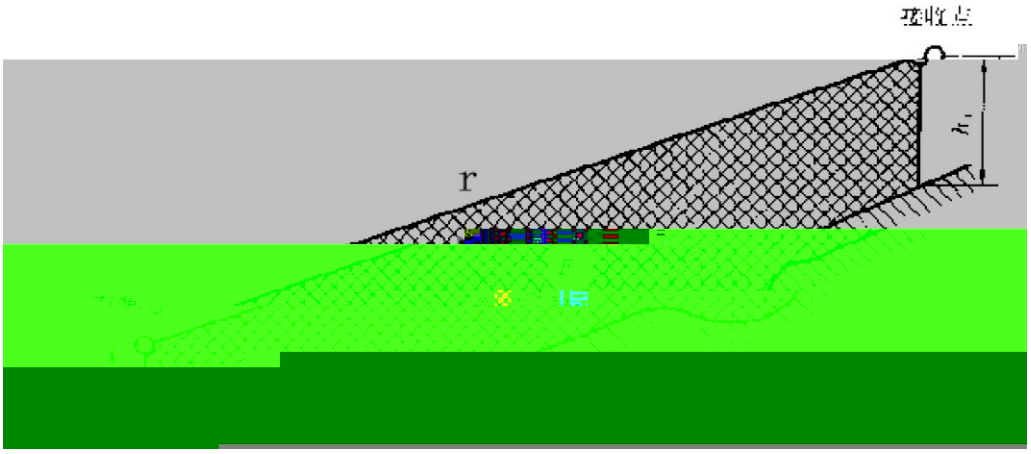
S/S_0	A_{bar}
40% 60%	3 dB(A)
70% 90%	5 dB(A)
	1.5 dB(A)
	” G % $

b) A_{atm}

$$A_{atm} \quad \frac{a(r \quad r_0)}{1000}$$

a

4.2-3 500Hz



Ò 4.2-6 AuGPz h_m ,

d) A_{misc}

4.2-4 500Hz

10 20m 1dB 20m 0.05dB/m

4.2-4

	df	Hz							
	m	63	125	250	500	1000	2000	4000	8000
dB		0	0	1	1	1	1	2	3

dB/m

w^{22}		m
H_b^{22}		m

Leq						
					N8-1 N8-2-	
		4 10	54.8	49.6		
NJ8-3		1 180	54.9	49.3	N9-1 N9-2 N10-1 N10-2	NJ8-3 N9-1 N9-2 N10-1 N10-2
NJ10-4		G204 1 G204 15	65.7	62.0	N11-1 N11-2 N13-1 N13-2	NJ10-4 G204 N11-1 N11-2 N13-1 N13-2
NJ11-3		1 168	51.0	46.6	N14~N16	NJ11-3 N14~N16
NJ12-3		1 169 92	64.1	61.4	N17-1 N17-2	NJ12-3 N17
NJ13-5		1 200	51.0	48.2	N12 N18 N28	NJ13-5 N12 N18 N28
NJ14-3		1 180	50.0	44.4	N19~N21	NJ14-3 N19~N21
NJ15-3	1	1 160	50.2	48.5	N22~N23	NJ15-3 N22~N23
NJ16-1	3	S232 1 S232	60.4	56.6	N24-1	NJ16-1 S232

Leq						
		14				N24-1
NJ16-2		S232 1 S232 45	57.9	53.0	N24-2	NJ16-2 S232 N24-2
NJ17-3		1 180	47.9	43.6	N25~N26	NJ17-3 N25~N26
NJ19		1 160	51.4	46.2	N27 N29 N36	NJ19 N27 N29 N36
NJ20-3		1 160	54.2	50.0	N30~N32	NJ20-3 N30~N32
NJ21-3		1 160	54.6	49.9	N33~N35	NJ21-3 N33~N35

※ 4.2-7)(Ã)Ö dB(A)

Leq			dB(A)			
NJ1-1		1	63.4	56.8	N1-1	NJ1-1 N1-1
NJ1-2		1	58.4	50.4	N1-2	NJ1-2 N1-2
NJ3-1		2	60.4	54.3	N2-1 2 N3-1	NJ3-1 N2-1 N3-1
		4	62.4	56.6	N2-1(4)	
		6	64.5	57.7	N2-1(6)	
NJ3-2		2	55.6	50.4	N2-2 2 N3-2	NJ3-2 N2-2 N3-2
		4	60.1	53.2	N2-2(4)	
		6	61.7	55.7	N2-2(6)	
NJ5-1		2	59.3	54.1	N4-1 2 N5-1(2)	NJ5-1 N4-1 N5-1
		4	60.9	56.2	N4-1 4 N5-1(4)	
		6	62.6	58.0	N4-1 6 N5-1(6)	
NJ5-2		2	56.4	49.8	N4-2 2 N5-2(2)	NJ5-2 N4-2 N5-2
		4	58.1	51.7	N4-2 4 N5-2(4)	
		6	59.3	53.2	N4-2 6 N5-2(6)	
NJ6-1		2	58.1	54.0	N6-1(2) N9-1(2)	NJ6-1 N6-1 N9-1
		4	59.6	54.7	N6-1(4) N9-1(4)	
		6	62.3	58.4	N6-1(6) N9-1(6)	
		10	61.5	56.2	N6-1(10)	
		17	60.6	55.4	N6-1(17)	

Leq			dB(A)			
NJ6-2		2	54.3	49.5	N6-2(2) N9-2(2)	NJ6-2 N6-2 N9-2
		4	55.7	50.5	N6-2(4) N9-2(4)	
		6	59.3	53.7	N6-2(6) N9-2(6)	
		10	58.4	52.4	N6-2(10)	
		17	56.4	51.5	N6-2(17)	
NJ7		2	53.1	47.7	N7(2) N8 2	NJ7 N7
		4	54.8	49.6	N7(4) N8 4	
NJ8-1		2	56.6	50.3	N10-1(2)	NJ8-1 N10-1
		4	59.7	52.4	N10-1(4)	
		6	57.4	51.1	N10-1(6)	
NJ8-2		2	52.8	47.1	N10-2(2)	NJ8-2 N10-2
		4	55.0	50.4	N10-2(4)	
		6	54.3	48.7	N10-2(6)	
NJ9-1		1	57.6	53.5	N11-1	NJ9-1 N11-1
NJ9-2		1	59.5	54.6	N11-2	NJ9-2 N11-2
N10-1		1	66.8	63.0	N13-1	NJ10-1 N13-1
N10-2		1	58.9	54.0	N13-2	NJ10-2 N10-2
NJ11-1		1	62.5	58.1	N14-1 N15-1	NJ11-1 N14-1 N15-1
NJ11-2		1	57.7	53.3	N14-2 N15-2 N16 N18	NJ11-2 N14-2 N15-2 N16 N18
NJ12-			66.7	64.0	N17-1	NJ12-1

Leq			dB(A)			
1		1				N17-1
NJ12-2		1	59.2	56.5	N17-2	NJ12-2 N17-2
NJ13-4		1 120	55.3	50.3	N20 N21-2	N13-4 N20 N21-2
NJ13-5		1 200	51.0	48.2	N12 N28	N13-5 N12 N28
NJ14-1		1	59.0	54.2	N19-1	NJ14-1 N19-1
NJ14-2		1	56.1	52.6	N19-2	NJ14-2 N19-2
NJ15-1		1	60.8	58.1	N22-1 N23-1	NJ15-1 N22-1 N23-1
NJ15-2	1	1	53.1	48.6	N22-2 N23-2	NJ15-2 N22-2 N23-2
NJ16-1		S232 1	60.4	56.6	N24-1	NJ16-1 N24-1
NJ16-2	3	S232 1	57.9	53.0	N24-2	NJ16-2 N24-2
NJ17-1		1	63.6	58.6	N25-1 N26-1	NJ17-1 N25-1 N26-1
NJ17-2		1	59.1	55.1	N25-2 N26-2	NJ17-2 N25-2 N26-2
NJ18-1		1	62.5	57.9	N27-1 N36-1	NJ18-1 N27-1 N36-1
NJ18-2		1	56.2	48.2	N27-2 N36-2	NJ18-2 N27-2 N36-2
NJ19		1 160	51.4	46.2	N29	NJ19 N29
NJ20-1		2	58.3	54.5	N30-1(2) N31-1(2) N32-1(2)	NJ20-1 N30-1 N31-1 N32-1

60m 4a 185m 2

10m

GB3096-2008 4a 55m 2

75m 4a 225m 2

2 G204~S232

GB3096-2008 4a 15m 2 ;

20m 4a 70m 2

GB3096-2008 4a 20m 2 ;

25m 4a 85m 2

GB3096-2008 4a 25m 2 ;

40m 4a 120m 2

3 S232~

GB3096-2008 4a 20m 2

30m 4a 100m 2

GB3096-2008 4a 25m 2

35m 4a 115m 2

GB3096-2008 4a 30m 2

40m 4a 145m 2

※ 4.2-9 @Ã 4“ EÊ Ä aÅ

				4a m		2 m	
	~G204	2024		/	/	60	35
				70	45	165	140
		2030		/	/	70	45
				85	60	210	185
		2038		/	/	80	55
				100	75	250	225
	G204~S232	2024		/	/	40	15
				45	20	95	70
		2030		/	/	45	20
				50	25	110	85
		2038		/	/	50	25
				65	40	145	120
	S232~	2024		/	/	45	20
				55	30	125	100
		2030		/	/	50	25
				60	35	200	115
		2038		/	/	55	30
				65	40	235	145

≍ 4.2-10 [illegible])Ö dB(A)

			/m	/m	/m		/m																				
										2024		2030		2038		2024		2030		2038		2024		2030		2038	
N1-1		K5+150	1	43	14	4a	4.2	51.3	45.5	63.5	59.8	64.6	61.0	65.1	61.9							63.7	59.9	64.8	61.2	65.3	62.0
N1-2				60	30	2	4.2	51.3	45.5	59.5	55.8	60.6	57.1	61.2	57.9												

			/m	/m	/m		/m			2024		2030		2038		2024		2030		2038		2024		2030		2038	
N14-1		K9+255	0	42	8	4a	4.2	51.0	46.6	59.3	55.6	60.1	56.4	61.5	57.8							59.9	56.1	60.6	56.9	61.8	58.2
N14-2				78	43	2	10.2	51.0	46.6	54.9	51.2	55.7	52.1	57.1	53.5							56.4	52.5	57.0	53.2	58.0	54.3
N15-1		K10+060	0	37	11	4a	4.2	51.0	46.6	60.4	56.7	61.2	57.5	62.6	58.9							60.8	57.1	61.6	57.9	62.9	59.2
N15-2				68	41	2	10.2	51.0	46.6	55.7	52.1	56.6	52.9	58.0	54.3							57.0	53.2	57.6	53.8	58.8	55.0
N16		K10+020	0	81	56	2	4.2	51.0	46.6	54.6	51.0	55.5	51.8	56.9	53.2							56.2	52.4	56.8	53.0	57.9	54.1
N17-1		K10+440	0	41	12	4a	4.2	64.1	61.4	59.5	55.8	60.3	56.7	61.7	58.0							65.4	62.5	65.6	62.7	66.1	63.0
N17-2		K10+445		76	46	2	10.2	64.1	61.4	55.0	51.4	55.9	52.2	57.2	53.6							64.6	61.8	64.7	61.9	64.9	62.1
N18		K10+590	0	94	68	2	4.2	51.0	48.2	53.7	50.1	54.6	50.9	56.0	52.3							55.6	52.3	56.2	52.8	57.2	53.8
N19-1		K11+450	0	66	37	4a	4.2	50.0	44.4	55.9	52.3	56.8	53.1	58.1	54.5							56.9	53.0	57.6	53.7	58.8	54.9

N

			/m	/m	/m		/m			2024		2030		2038		2024		2030		2038		2024		2030		2038	
N26-1		K14+900	0	43	19	4a	4.2	47.9	43.6	60.4	56.8	60.2	56.5	61.4	57.8							60.7	57.0	60.4	56.7	61.6	57.9
N26-2				69	42	2	10.2	47.9	43.6	57.0	53.4	56.7	53.1	58.0	54.4							57.5	53.8	57.3	53.5	58.4	54.7
N27-1		K16+620	0	50	21	4a	4.2	51.4	46.2	59.3	55.6	59.0	55.3	60.3	56.6							59.9	56.1	59.7	55.8	60.8	57.0
N27-2				77	46	2	10.2	51.4	46.2	56.3	52.7	56.1	52.4	57.3	53.7							57.5	53.6	57.3	53.3	58.3	54.4
N28		K16+400	0	177	149	2	4.2	51.0	48.2	51.6	47.9	51.3	47.6	52.6	48.9							54.3	51.1	54.2	50.9	54.9	51.6
							10.2	51.0	48.2	52.2	48.6	52.0	48.3	53.2	49.6							54.7	51.4	54.5	51.2	55.3	51.9
							16.5	51.0	48.2	52.8	49.2	52.6	48.9	53.8	50.2							55.0	51.7	54.9	51.6	55.7	52.3
N29		K16+600	0	174	145	2	4.2	51.4	46.2	51.7	48.0	51.4	47.7	52.7	49.0							54.6	50.2	54.4	50.0	55.1	50.9
							10.2	51.4	46.2	52.3	48.7	52.1	48.4	53.3	49.7							54.9	50.6	54.7	50.4	55.5	51.3
							16.2	51.4	46.2	53.0	49.3	52.7	49.0	53.9	50.3							55.3	51.0	55.1	50.8	55.9	51.7
							28.2	51.4	46.2	54.1	50.5	53.9	50.2	55.1	51.5							56.0	51.9	55.8	51.6	56.7	52.6
							52.2	51.4	46.2	55.7	52.1	55.5	51.8	56.7	53.1							57.1	53.1	56.9	52.8	57.8	53.9
N30-1		K17+120	0	49	23	4a	4.2	54.2	50.0	59.4	55.7	59.1	55.4	60.4	56.7							60.6	56.8	60.3	56.5	61.3	57.6
							10.2	54.2	50.0	61.7	58.0	61.4	57.7	62.6	59.0							62.4	58.6	62.1	58.4	63.2	59.5
							16.2	54.2	50.0	61.5	57.9	61.2	57.6	62.5	58.9							62.3	58.5	62.0	58.3	63.1	59.4
N30-2				74	47	2	4.2	54.2	50.0	56.6	52.9	56.3	52.6	57.6	53.9							58.6	54.7	58.4	54.5	59.2	55.4
							10.2	54.2	50.0	58.2	54.5	57.9	54.2	59.2	55.5							59.7	55.9	59.5	55.6	60.4	56.6
							16.2	54.2	50.0	59.7	56.0	59.4	55.7	60.7	57.0							60.8	57.0	60.6	56.8	61.6	57.8
N31-1		K17+065	0	49	22	4a	4.2	54.2	50.0	59.4	55.7	59.1	55.4	60.4	56.7							60.6	56.8	60.3	56.5	61.3	57.6
							10.2	54.2	50.0	61.7	58.0	61.4	57.7	62.6	59.0							62.4	58.6	62.1	58.4	63.2	59.5
							16.2	54.2	50.0	61.5	57.9	61.2	57.6	62.5	58.9							62.3	58.5	62.0	58.3	63.1	59.4
N31-2		K17+070		73	46	2	4.2	54.2	50.0	56.7	53.0	56.4	52.7	57.7	54.0							58.6	54.8	58.4	54.6	59.3	55.5
							10.2	54.2	50.0	58.3	54.7	58.0	54.3	59.3	55.7							59.7	55.9	59.5	55.7	60.5	56.7

											2024		2030		2038		2024		2030		2038		2024		2030		2038	
			/m	/m	/m		/m																				
							/m																				
							16.2	54.2	50.0	59.8	56.2	59.5	55.9	60.8	57.2							60.9	57.1	60.7	56.9	61.7	57.9

N32-1 K17+395

表 4.2-11 䘵WBGLN4ʃú)Ö dB(A)

			/m	/m	/m		/m																								-
														2024		2030		2038		2024		2030		2038		2024		2030		2038	
N1-1		K5+150	1	43	14	4a	4.2	70.0	55.0	63.4	56.8	51.3	45.5	63.7	59.9	64.8	61.2	65.3	62.0	-	4.9	-	6.2	-	7.0	0.3	3.1	1.4	4.4	1.9	5.2
N1-2				60	30	2	4.2	60.0	50.0	58.4	50.4	51.3	45.5	60.1	56.2	61.1	57.4	61.6	58.2	0.1	6.2	1.1	7.4	1.6	8.2	1.7	5.8	2.7	7.0	3.2	7.8
N2-1		K6+470	90	44	12	4a	4.2	70.0	55.0	60.4	54.3	51.0	45.6	60.4	56.4	61.5	57.6	62.2	58.5	-	1.4	-	2.6	-	3.5	0.0	2.1	1.1	3.3	1.8	4.2
							10.2	70.0	55.0	62.4	55.6	51.0	45.6	64.2	60.3	65.4	61.6	66.2	62.5	-	5.3	-	6.6	-	7.5	1.8	4.7	3.0	6.0	3.8	6.9
							16.2	70.0	55.0	59.4	53.7	51.0	45.6	64.1	60.3	65.4	61.6	66.1	62.5	-	5.3	-	6.6	-	7.5	4.7	6.6	6.0	7.9	6.7	8.8
N2-2				73	41	2	4.2	60.0	50.0	55.6	50.4	51.0	45.6	58.1	54.0	59.1	55.2	59.8	56.0	-	4.0	-	5.2	-	6.0	2.5	3.6	3.5	4.8	4.2	5.6
							10.2	60.0	50.0	60.1	53.2	51.0	45.6	61.9	58.0	63.1	59.3	63.9	60.2	1.9	8.0	3.1	9.3	3.9	10.2	1.8	4.8	3.0	6.1	3.8	7.0
							16.2	60.0	50.0	58.5	52.7	51.0	45.6	62.0	58.1	63.2	59.4	63.9	60.3	2.0	8.1	3.2	9.4	3.9	10.3	3.5	5.4	4.7	6.7	5.4	7.6
N3-1		K6+505	90	47	15	4a	4.2	70.0	55.0	60.4	54.3	51.0	45.6	60.3	56.3	61.4	57.6	62.1	58.4	-	1.3	-	2.6	-	3.4	0.0	2.0	1.0	3.3	1.7	4.1
N3-2		K6+515		80	48	2	4.2	60.0	50.0	55.6	50.4	51.0	45.6	58.5	54.5	59.6	55.7	60.3	56.5	-	4.5	-	5.7	0.3	6.5	2.9	4.1	4.0	5.3	4.7	6.1
N4-1		K6+630	90	35	12	4a	4.2	70.0	55.0	59.3	54.1	49.7	43.4	60.3	56.3	61.4	57.5	62.1	58.4	-	1.3	-	2.5	-	3.4	1.0	2.2	2.1	3.4	2.8	4.3

																										-					
														2024		2030		2038		2024		2030		2038		2024		2030		2038	
			/m	/m	/m		/m																								
							16.2	70.0	55.0	62.3	58.4	54.8	49.6	64.3	60.4	65.5	61.7	66.2	62.6	-	5.4	-	6.7	-	7.6	2.0	2.0	3.2	3.3	3.9	4.2

[redacted]

[redacted]

																									-					
															2024		2030		2038		2024		2030		2038		2024		2030		2038	
			/m	/m	/m		/m																							
N25-1		K14+045	0	40	13	4a	4.2	70.0	55.0	63.6	58.6	47.9	43.6	61.2	57.6	61.0	57.3	62.2	58.5	-	2.6	-	2.3	-	3.5	-2.4	-1.0	-2.6	-1.3	-1.4	-0.1
N25-2		K14+060		70	44	2	10.2	60.0	50.0	59.1	55.1	47.9	43.6	57.4	53.7	57.2	53.4	58.3	54.6	-	3.7	-	3.4	-	4.6	-1.7	-1.4	-1.9	-1.7	-0.8	-0.5
N26-1		K14+900	0	43	19	4a	4.2	70.0	55.0	63.6	58.6	47.9	43.6	60.7	57.0	60.4	56.7	61.6	57.9	-	2.0	-	1.7	-	2.9	-2.9	-1.6	-3.2	-1.9	-2.0	-0.7
N26-2				69	42	2	10.2	60.0	50.0	59.1	55.1	47.9	43.6	57.5	53.8	57.3	53.5	58.4	54.7	-	3.8	-	3.5	-	4.7	-1.6	-1.3	-1.8	-1.6	-0.7	-0.4
N27-1		K16+620	0	50	21	4a	4.2	70.0	55.0	62.5	57.9	51.4	46.2	59.9	56.1	59.7	55.8	60.8	57.0	-	1.1	-	0.8	-	2.0	-2.6	-1.8	-2.8	-2.1	-1.7	-0.9
N27-2				77	46	2	10.2	60.0	50.0	56.2	48.2	51.4	46.2	57.5	53.6	57.3	53.3	58.3	54.4	-	3.6	-	3.3	-	4.4	1.3	5.4	1.1	5.1	2.1	6.2
N28		K16+400	0	177	149	2	4.2	60.0	50.0	51.0	48.2	51.0	48.2	54.3	51.1	54.2	50.9	54.9	51.6	-	1.1	-	0.9	-	1.6	3.3	2.9	3.2	2.7	3.9	3.4
							10.2	60.0	50.0	51.0	48.2	51.0	48.2	54.7	51.4	54.5	51.2	55.3	51.9	-	1.4	-	1.2	-	1.9	3.7	3.2	3.5	3.0	4.3	3.7
							16.5	60.0	50.0	51.0	48.2	51.0	48.2	55.0	51.7	54.9	51.6	55.7	52.3	-	1.7	-	1.6	-	2.3						

												2024		2030		2038		2024		2030		2038		- 2024		2030		2038	
			/m	/m	/m		/m																						
							16.2	70.0	55.0	62.2	58.6	54.2	50.0	62.3	58.5	62.0	58.3	63.1	59.4	-	3.5	-	3.3	-	4.4	0.1	-0.1	-0.2	-0.3	0.9	0.8
N31-2		K17+070		73	46	2	4.2	60.0	50.0	54.7	49.9	54.2	50.0	58.6	54.8	58.4	54.6	59.3	55.5	-	4.8	-	4.6	-	5.5	3.9	4.9	3.7	4.7	4.6	5.6
							10.2	60.0	50.0	56.5	52.0	54.2	50.0	59.7	55.9	59.5	55.7	60.5	56.7	-	5.9	-	5.7	0.5	6.7	3.2	3.9	3.0	3.7	4.0	4.7
							16.2	60.0	50.0	59.4	55.4	54.2	50.0	60.9	57.1	60.7	56.9	61.7	57.9	0.9	7.1	0.7	6.9	1.7	7.9	1.5	1.7	1.3	1.5	2.3	2.5
N32-1		K17+395		41	13	4a	4.2	70.0	55.0	58.3	54.5	54.2	50.0	61.7	57.9	61.5	57.7	62.5	58.8	-	2.9	-	2.7	-	3.8	3.4	3.4	3.2	3.2	4.2	4.3
							10.2	70.0	55.0	59.5	55.4	54.2	50.0	63.0	59.3	62.8	59.0	63.9	60.2	-	4.3	-	4.0	-	5.2	3.5	3.9	3.3	3.6	4.4	4.8
							16.2	70.0	55.0	62.2	58.6	54.2	50.0	62.9	59.1	62.6	58.9	63.7	60.0	-	4.1	-	3.9	-	5.0	0.7	0.5	0.4	0.3	1.5	1.4
N32-2		K17+410	0	71	43	2	4.2	60.0	50.0	54.7	49.9	54.2	50.0	58.7	54.9	58.6	54.7	59.4	55.6	-	4.9	-	4.7	-	5.6	4.0	5.0	3.9	4.8	4.7	5.7
							10.2	60.0	50.0	56.5	52.0	54.2	50.0	59.9	56.1	59.7	55.9	60.7	56.9	-	6.1	-	5.9	0.7	6.9	3.4	4.1	3.2	3.9	4.2	4.9
							16.2	60.0	50.0	59.4	55.4	54.2	50.0	61.0	57.2	60.8	57.0	61.8	58.0	1.0	7.2	0.8	7.0	1.8	8.0	1.6	1.8	1.4	1.6	2.4	2.6

3

4.2-12 36

28 4a 36 2

4a

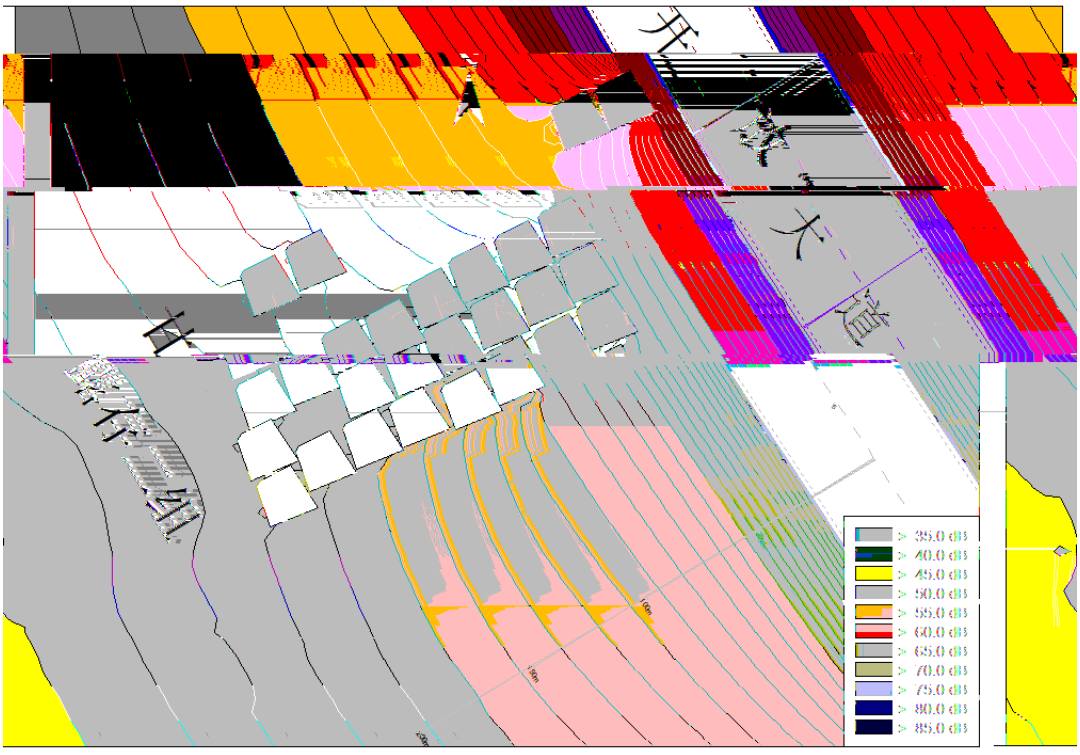
63.0dB(A) 8.0dB(A) 2

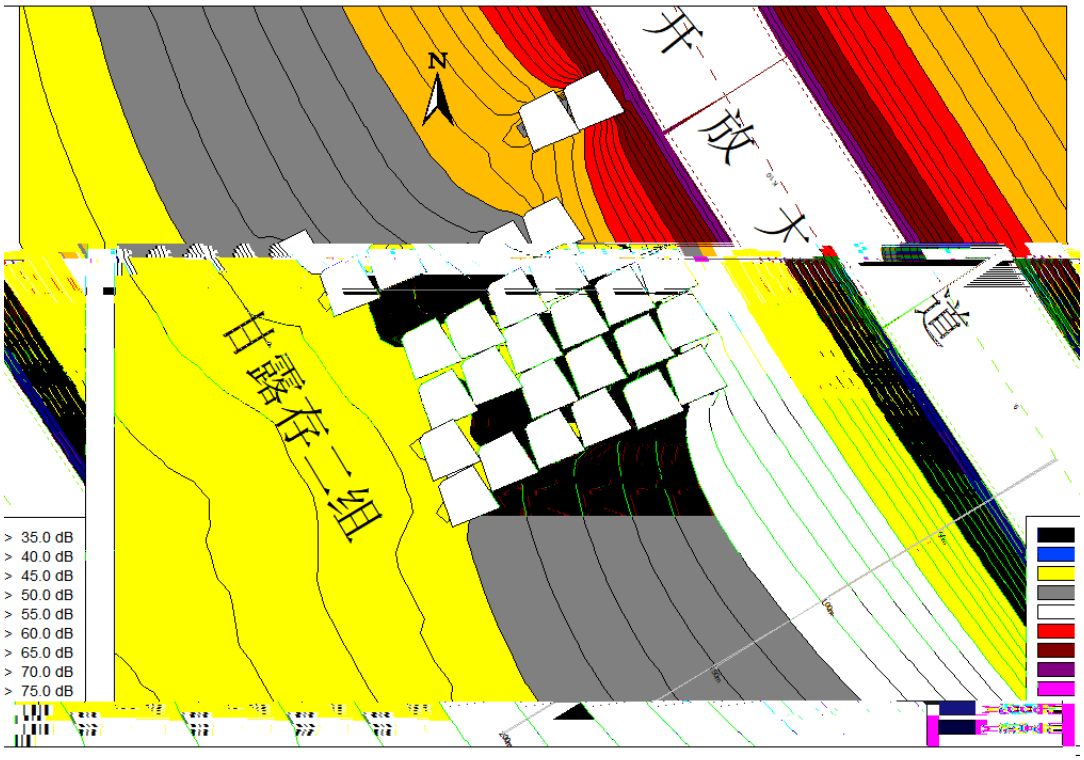
66.5dB(A) 6.5dB(A)

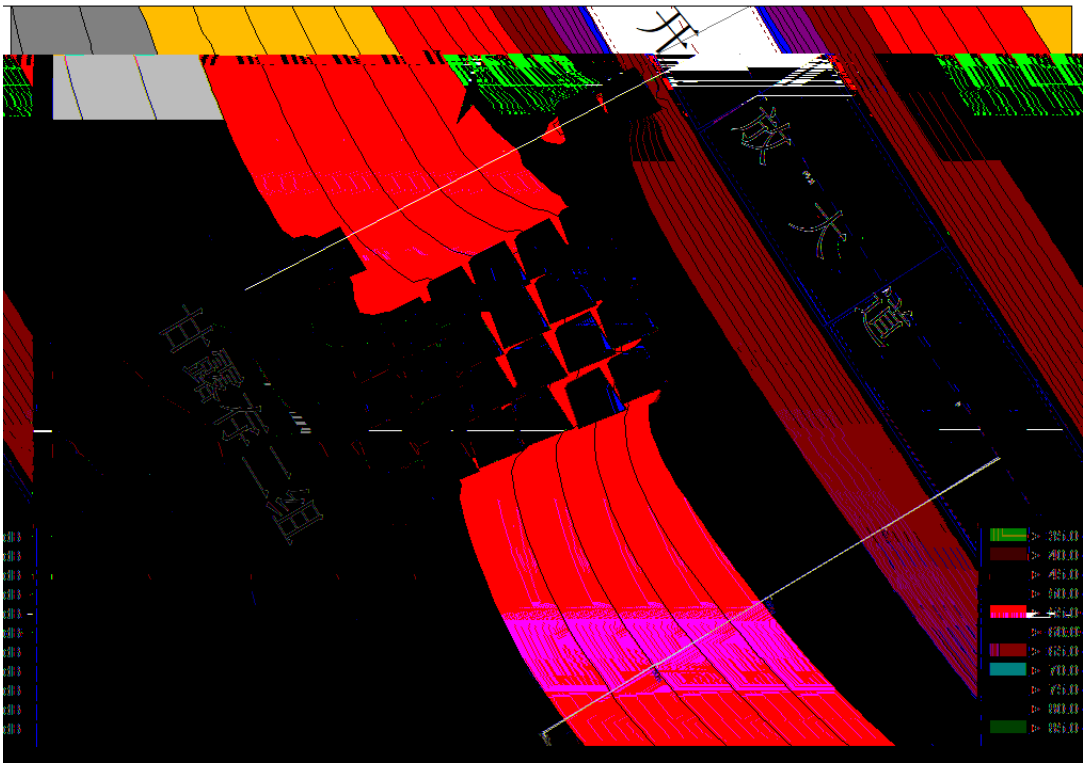
62.8dB(A) 12.8dB(A)

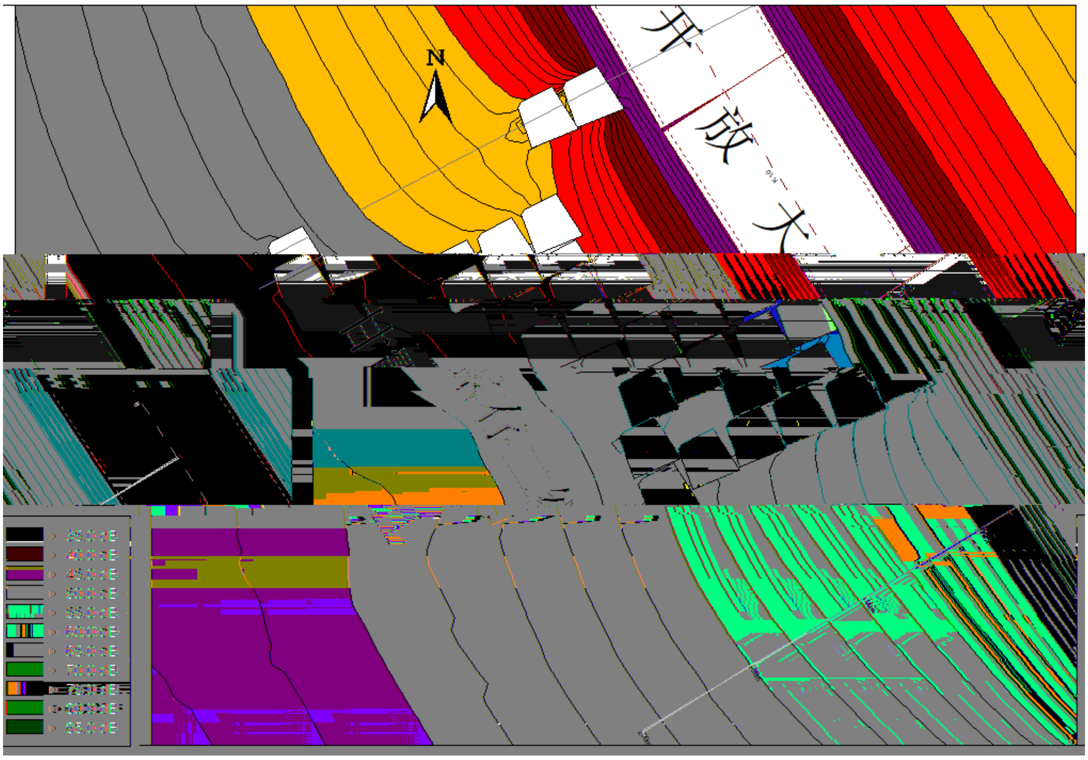
※ 4.2-12 ÎNM,ÂÏ×[illegible]Au※

						dB(A)		
4a	28		/	/	/	/	/	/
			26	26	27	7.8	8.0	8.5
2	36		15	15	17	6.3	6.5	6.7
			36	36	36	12.6	12.8	13.0

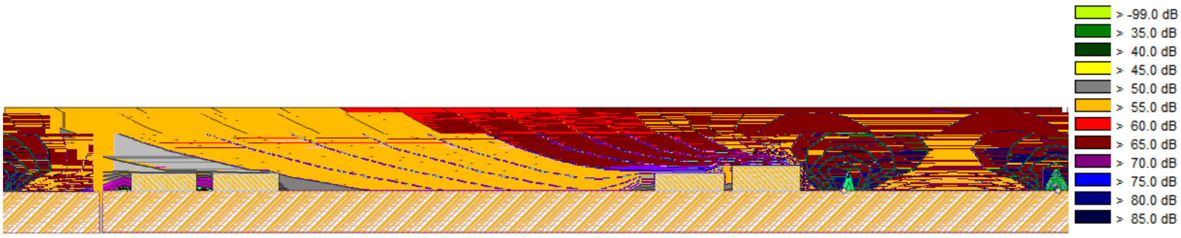


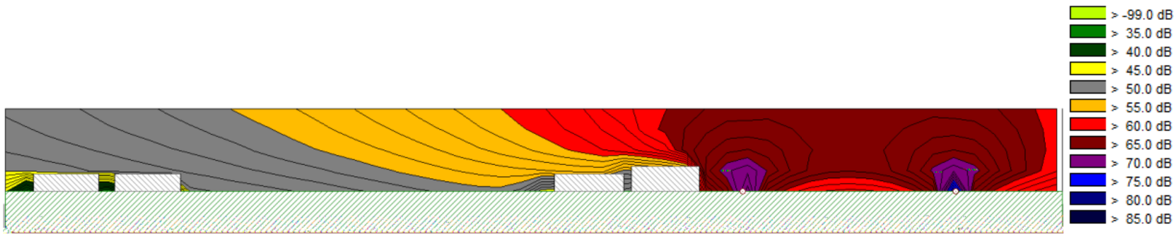

N
开放大道
甘露存一组
> 35.0 dB
> 40.0 dB
> 45.0 dB
> 50.0 dB
> 55.0 dB
> 60.0 dB
> 65.0 dB
> 70.0 dB
> 75.0 dB

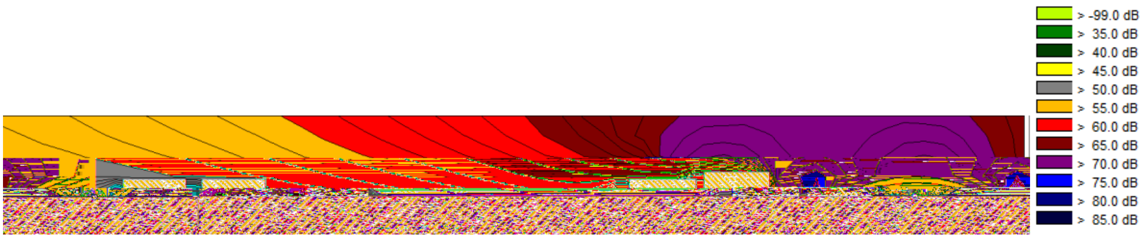


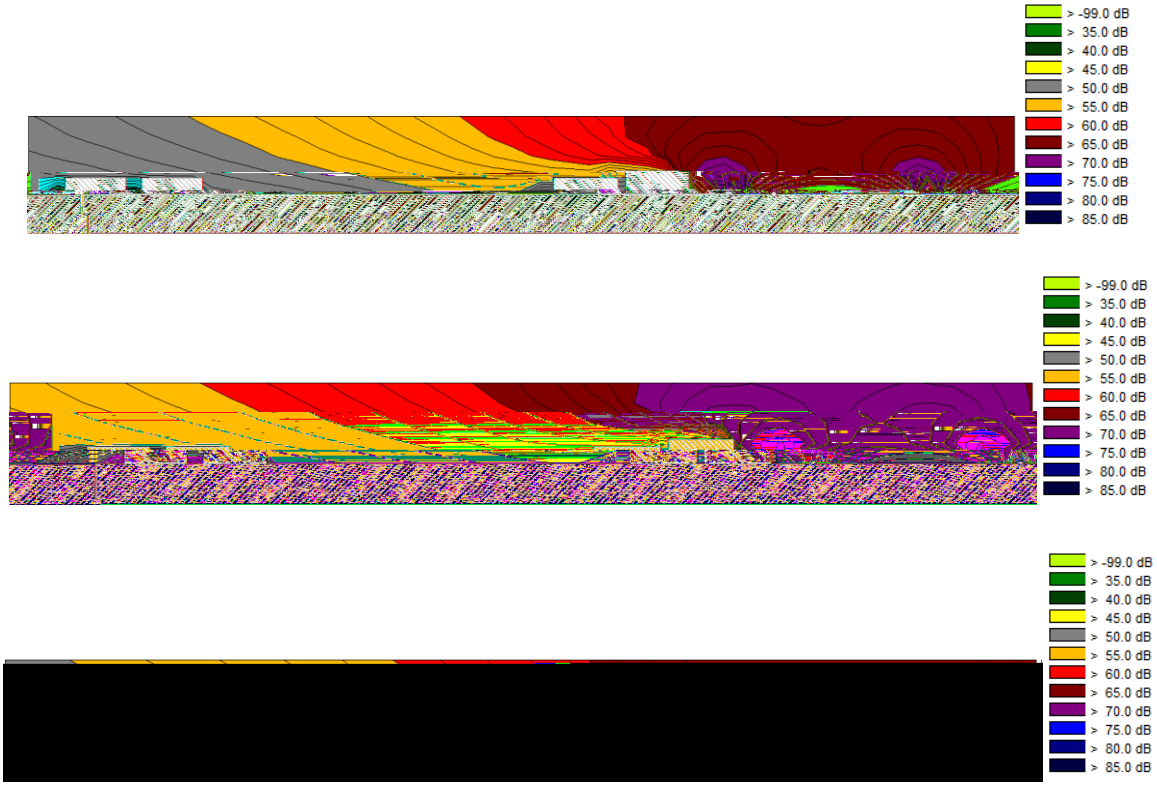

N
开
放
大

Ò 4.2-7


> -99.0 dB
> 35.0 dB
> 40.0 dB
> 45.0 dB
> 50.0 dB
> 55.0 dB
> 60.0 dB
> 65.0 dB
> 70.0 dB
> 75.0 dB
> 80.0 dB
> 85.0 dB


> -99.0 dB
> 35.0 dB
> 40.0 dB
> 45.0 dB
> 50.0 dB
> 55.0 dB
> 60.0 dB
> 65.0 dB
> 70.0 dB
> 75.0 dB
> 80.0 dB
> 85.0 dB


> -99.0 dB
> 35.0 dB
> 40.0 dB
> 45.0 dB
> 50.0 dB
> 55.0 dB
> 60.0 dB
> 65.0 dB
> 70.0 dB
> 75.0 dB
> 80.0 dB
> 85.0 dB



Ò 4.2-8 4“ K10+050 L%V,ÈÄ4Ò

4.3 8

1

22:00-6:00

300m

2

4a

63.0dB(A) 8.0dB(A) 2

66.5dB(A) 6.5dB(A)

HJ/T17-1996

25dB(A) 1000 /m^2

3000 /m-4000 /m

3m 6-9dB(A)

1m

0.15-0.17dB(A)/m 30m

1200~3000 /m

≍ 5.2-1)ÿWx~T4(MU

1			3000~4000 /m	6-9dB(A)
2			100 /	'
3			1000 /m^2	•25dB
4			0.5 /100m^2	1-3dB(A)

5.2.2)ú

1

2

3

5.2.3)ÿV

1

• G %

GB50118-2010 45dB(A)

37dB(A)

2

3.5m

• G % 5.2-2

5.2-3

※ 5.2-2 ※

	3.5m 3011m	N2 N3 N4 N5 N6 N9 N10 N11 N13	1204.4		
	200m 1022 30660m^2	N1 N3 N4 N7 N11 N12 N13 N14 N15 N16 N17 N18 N19 N20 N21 N22 N23 N24 N25 N26 N27 N35	3066		
		N2 N6 N13 N23 N27 N31	20		
			110		
			4400.4		

≍ 5.2-3 ß‹ÃĂ≍

				dB(A)						dB(A)														
				2024		2030		2038		2024		2030		2038										
																		m	m			m2		
N1		4a	2	-	4.9	-	6.2	-	7.0	-	4.9	-	6.2	-	7.0	3 • G % GB50118-2010 45dB(A) 37dB(A)					3	90	9.0	9.0
		2	2	0.1	6.2	1.1	7.4	1.6	8.2	0.1	6.2	1.1	7.4	1.6	8.2									
N2		4a	2	-	1.4	-	2.6	-	3.5	-	-	-	-	-	-	K6+313~K6+535 3.5m 4a 2 4~5dB(A) 3~4dB(A) 2010 25dB(A) 45dB(A) 37dB(A)		222	3.5	88.8				88.8
			4	-	5.3	-	6.6	-	7.5	-	1.9	-	3.1	-	4.0									
			6	-	5.3	-	6.6	-	7.5	-	5.3	-	6.6	-	7.5									
		2	2	-	4.0	-	5.2	-	6.0	-	1.5	-	2.5	-	3.2									
			4	1.9	8.0	3.1	9.3	3.9	10.2	-	5.4	0.5	6.6	1.2	7.4									
			6	2.0	8.1	3.2	9.4	3.9	10.3	2.0	8.1	3.2	9.4	3.9	10.3									
N3		4a	2	-	1.3	-	2.6	-	3.4	-	-	-	-	-	-	K6+313~K6+500 3.5m 4a 2 9dB(A) 6dB(A) 50 • G % + GB50118-2010 45dB(A) 37dB(A)		187	3.5	74.8	50	1500	150.0	224.8
		2	2	-	4.5	-	5.7	0.3	6.5	-	0.5	-	1.4	-	2.0									

			dB(A)																
	038		2024		2030		2038												
										m	m				m2				

104 3120 312.0 312.0

45dB(A) 37dB(A)

				dB(A)						dB(A)													
				2024		2030		2038		2024		2030		2038									
																	m	m			m2		
N14		4a	2	-	1.1	-	1.9	-	3.2	-	1.1	-	1.9	-	3.2	37dB(A)	• G % 15 45dB(A)					15	450	45.0	45.0
		2	2	-	2.5	-	3.2	-	4.3	-	2.5	-	3.2	-	4.3										
N15		4a	2	-	2.1	-	2.9	-	4.2	-	2.1	-	2.9	-	4.2	37dB(A)	• G % 31 45dB(A)					31	930	93.0	93.0
		2	2	-	3.2	-	3.8	-	5.0	-	3.2	-	3.8	-	5.0										
N16		2	2	-	2.4	-	3.0	-	4.1	-	2.4	-	3.0	-	4.1	37dB(A)	• G % 18 45dB(A)					18	540	54.0	54.0
N17		4a	2	-	7.5	-	7.7	-	8.0	-	7.5	-	7.7	-	8.0	37dB(A)	• G % 124 45dB(A)					124	3720	372.0	372.0
		2	2	4.6	11.8	4.7	11.9	4.9	12.1	4.6	11.8	4.7	11.9	4.9	12.1										

				dB(A)						dB(A)													
				2024		2030		2038		2024		2030		2038									
																	m	m			m2		
N18		2	2	-	2.3	-	2.8	-	3.8	-	2.3	-	2.8	-	3.8	37dB(A)	• G %	13 45dB(A)				13	390	39.0	39.0
		4a	2	-	-	-	-	-	-	-	-	-	-	-	-										
N19																	• G %	60 45dB(A)							

	dB(A)	**dB(A)**

				dB(A)						dB(A)													
				2024		2030		2038		2024		2030		2038									
																	m	m			m2		
N26		4a	2	-	2.0	-	1.7	-	2.9	-	2.0	-	1.7	-	2.9	• G % 70 45dB(A) 37dB(A)							
		2	2	-	3.8	-	3.5	-	4.7	-	3.8	-	3.5	-	4.7					70	2100	210.0	210.0
N27		4a	2	-	1.1	-	0.8	-	2.0	-	1.1	-	0.8	-	2.0	• G % 104 45dB(A) 37dB(A)							
		2	2	-	3.6	-	3.3	-	4.4	-	3.6	-	3.3	-	4.4					104	3120	312.0	312.0
N28		2	2	-	0.2	-	-	-	0.8	-	0.2	-	-	-	0.8	25 2010 25dB(A) 45dB(A) 37dB(A)							

				dB(A)						dB(A)												
				2024		2030		2038		2024		2030		2038								
																	m	m			m2	
		4a	2	-	1.8	-	1.5	-	2.6	-	1.8	-	1.5	-	2.6							
			4	-	3.6	-	3.4	-	4.5	-	3.6	-	3.4	-	4.5							
			6	-	3.5	-	3.3	-	4.4	-	3.5	-	3.3	-	4.4							

25

2010

N30

- G %

45dB(A) 37dB(A)

	dB(A)		**dB(A)**

36 28 4a 36 2

4a

63.0dB(A) 8.0dB(A) 2

66.5dB(A) 6.5dB(A)

62.8dB(A) 12.8dB(A)

6.4 ¥V

1

1

2 22 00 06 00

GB12523-2011

3

4

5

6

2

3.5m

6.2 36
6.3 36
6.4 38

3	JTGB03-2006
4	-
5	JTG B04-2010

1.2

1.2.1

1.2-1

1.2-1

	13.155km 50km 0.76km^2 2km^2 1 HJ 19-2011	

1.2.2

1.3

1.3.1

HJ19-2011

300m

1.3.2

1.3-1

B3		40m	
B4			

2.1

2019 10

G204 45

204

G204 G204

204

G204 G204

1

G204

2.2

1

2

3

+

G204 G204

13.155

4

5 2

6 229897.20

7

1 ~ G204

2 G204 ~

8

1 80km/h 50km/h

2 60km/h

2.3

380000m^2 13.155km 2

2 15 1 229897.20

2.3-1

2.3-1

1		~ G204 G204 ~
2		80km/h 50km/h 60km/h
3		
4		380000 m^2
5		2266 m^2
6		

1		-A JTG B01-2014 -
2		
1		3.416km/2
2		0.84km/2
3		0.338km/15
4		0.041km/1
1		2
2		16
1		105240m^2

2

3

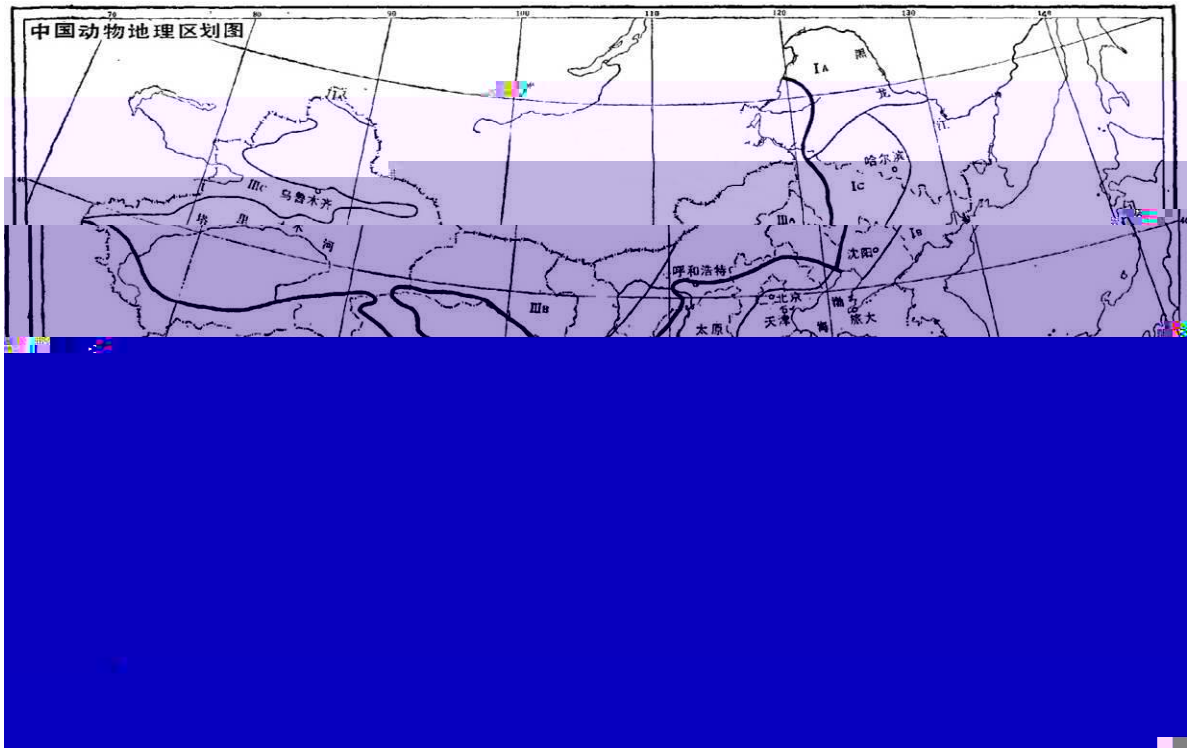
4 3.2-1

3.2-1

3.3

1

A A



3.3-1

2

Passermontanus *Pica pica* *Cyanopica cyana*

Hirundo rustica

)

3.4

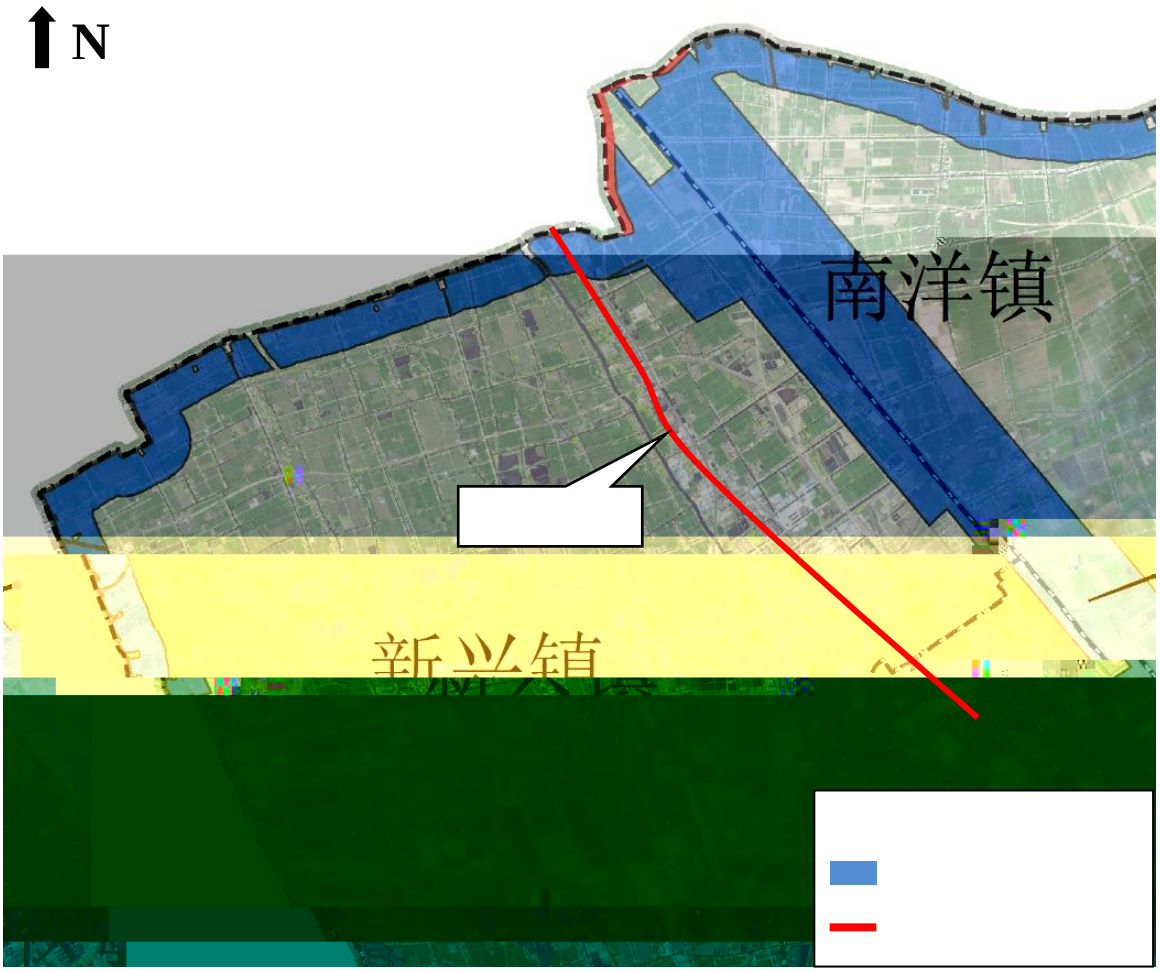
1

16

1 7

100 6470

3115.4213 1787.9148



3.5-1

2

K11+635~K12+410

4

300m

3 5

4.3

1

2

4.3-1

4.3-1

	t/hm^2				
		hm^2	t	hm^2	t
	65	0.6	39	/	/
	17	3.2	54.4	1.87	31.79
	14	16.68	233.52	/	/
		20.48	326.92	1.87	31.79

4.3-1

326.92t

31.79t

3

4

5

105240m^2 120000m^2 17170m^2

412.097t

4.4

1

2

4.5

1

4.6

JTGB04-2010

4.7

4.7.1

1

28886 pcu/d

0.72 41391 pcu/d

4.7-1

	(pcu/h)	pcu/h		
	5041	1000	2.77	6

4.7-2

		pcu/d	pcu/d		
	2020	28886	40000	0.72	
	2030	41391	68985	0.60	C

CJJ37-2016

C

2

-

4.7.2

2020 1

K11+635~K12+410

3.6-1

2019

48

2021 3

2021 3

3

2021 20

2021 20

2021 3

2019 48

2021 3

2021 20

2021 3

2021 20

4.7.5

1

K11+635~K12+410

2

5

5.1

5.1.1

1

2

3

4

5.1.2

1

2

3

60kg

5.1.5

1

2

3

4

200m

5.2

1

2

3

4

6.1

+ G204

G204

13.155

6.2

1 757306m^2 380000m^2

230114m^2 166837m^2 495340m^2 31852m^2

2 -

A1

3

4

6.3

1

I 2-6

2