QUANTITY CALCULATION COVER SHEET				
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001	
Work Section Title	Land Roclavation	Pay Item No. (BOQ)		
Quantity Item	Reclamation Area.	Unit	м3.	

(above +4,5m)

Reclanation volume above +4.5m in Reclanation Area. was computed by the following method.

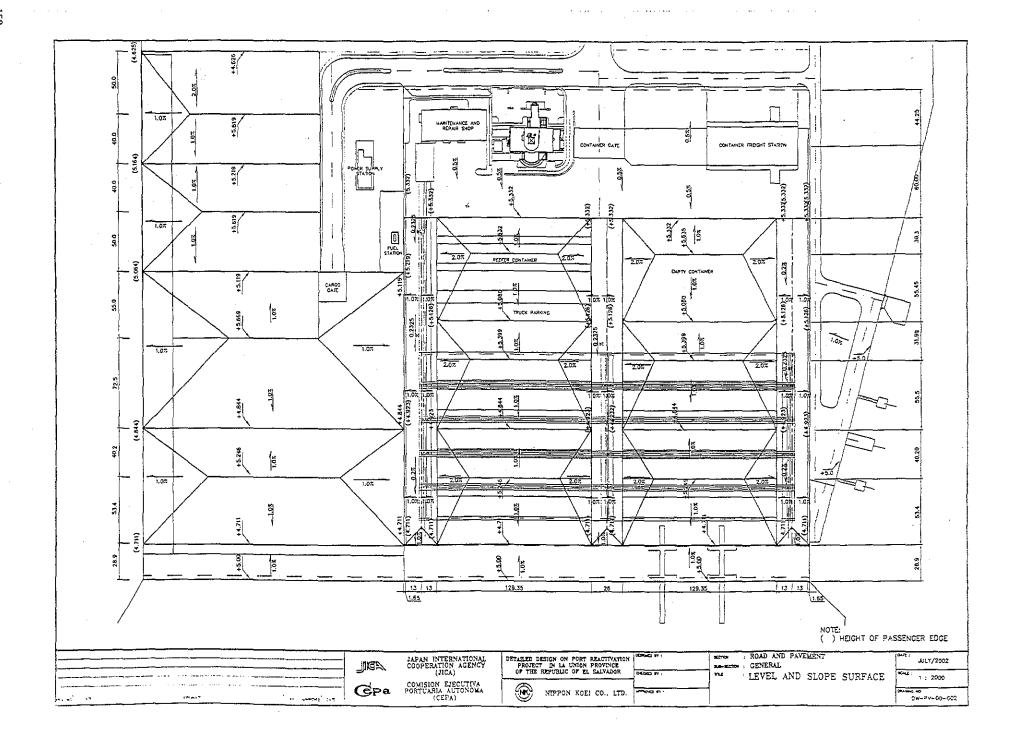
- 1. calculation of Areas of Sections
- 2. Average of Aveas of Sections
- 3. calculation of Volume: Average of Averas of Sections
 times distance between Sections
 (Exrel)

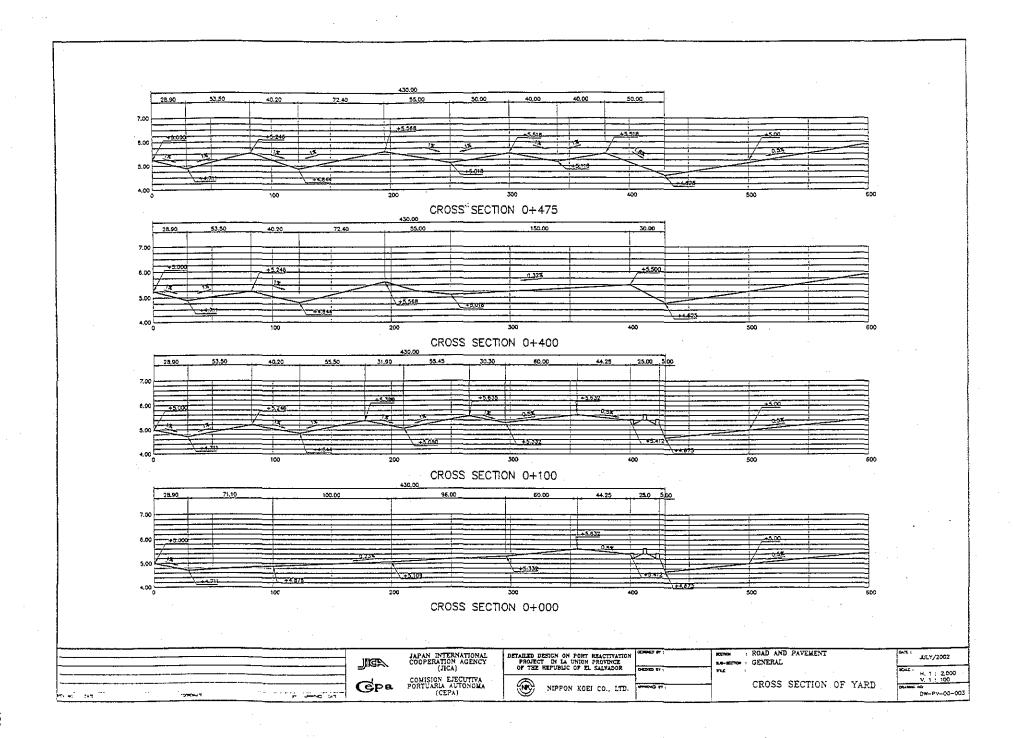
References, Calculation Base and Revisions

DW-PV-00-002

DW-PV-00-003

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Container Yard (340m) above +4.5m

	Level	Average	Surface depth	Distance	Area
	(m)	(m)	(m)	(m)	(m^2)
No.1	5.100				
		5.368	0,60	53.50	14.31
No.2	5.635				
· ·		5.484	0,60	30.30	11.62
No.3	5.332				
		5.482	0.60	60.00	22.92
No.4	5.632				
		5,522	0,60	44.25	18.67
No.5	5.412				
					67.52
				V=	22,957

Multi-purpose Yard (70m)

	Level	Average	Surface depth	Distance	Area
	(m)	(m)	_(m)	(m)	(m²)
No.1	5.100				
		5.3345	0.45	61.90	23.80
No.2	5.569				
		5.294	0.45	55.00	18.92
No.3	5.019				
		5.2595	0.45	150.00	46,43
No.4	5.500				
					89.15
				V=	6.241

Multi-purpose Yard (150m)

T	Level	Average	Surface depth	Distance	Area
	(m)	(m)	(m)	(m)	(m^2)
No.1	5.100				
		5.3345	0.45	61.90	23.80
No.2	5.569				
		5.294	0.45	55.00	18.92
No.3	5.019				
		5,269	0.00	50.00	38.45
No.4	5.519				
		5.319	0.00	40.00	32.76
No.5	5.119				
		5.319	0.00	40.00	32.76
No.6	5.519				
		5.072	0.00	50.00	28.60
No.7	4.625				
					175.29
				V=	26,294

Total 56,000 r

QUANTITY CALCULATION COVER SHEET				
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001	
Work Section Title	Land Reclamation	Pay Item No. (BOQ)		
Quantity Item	Embournet of road	Unit	М ³	

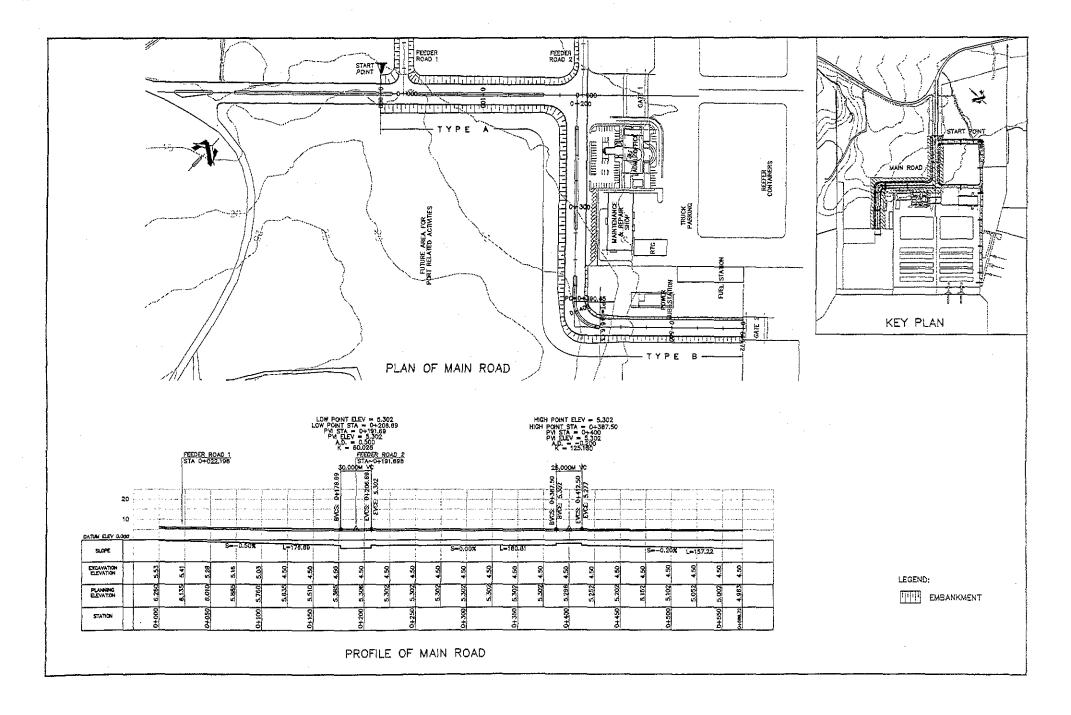
Volume of embankment of road was computed by Excel.

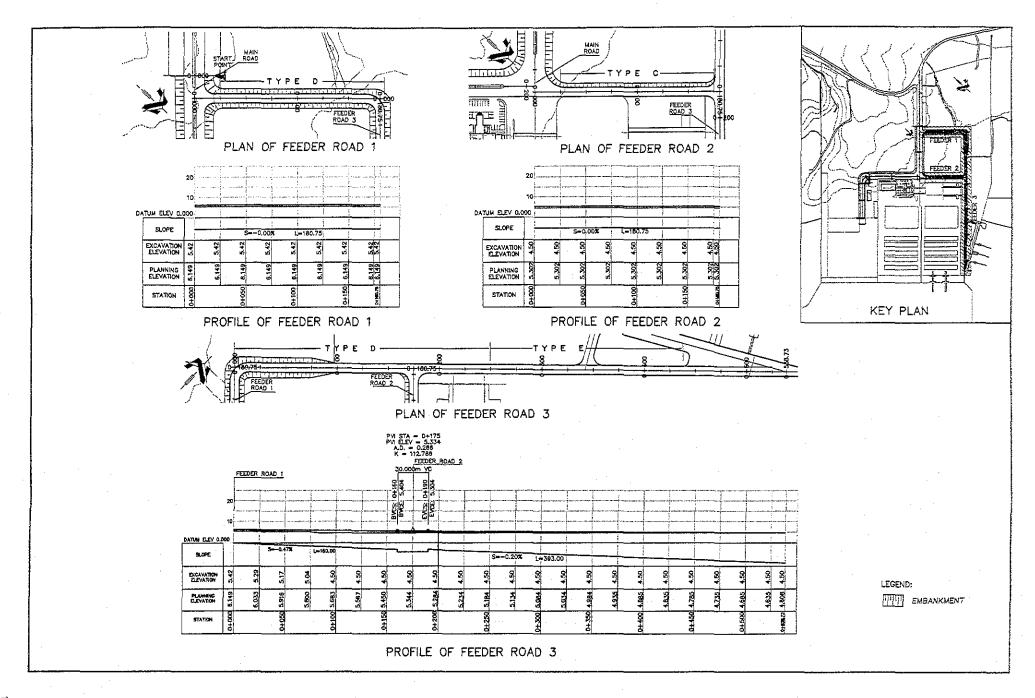
- 1. Calculation of area of section
- 2. Average of area of sections
 - 3. Calculation of volume: Average of area of sections times distance between Sections

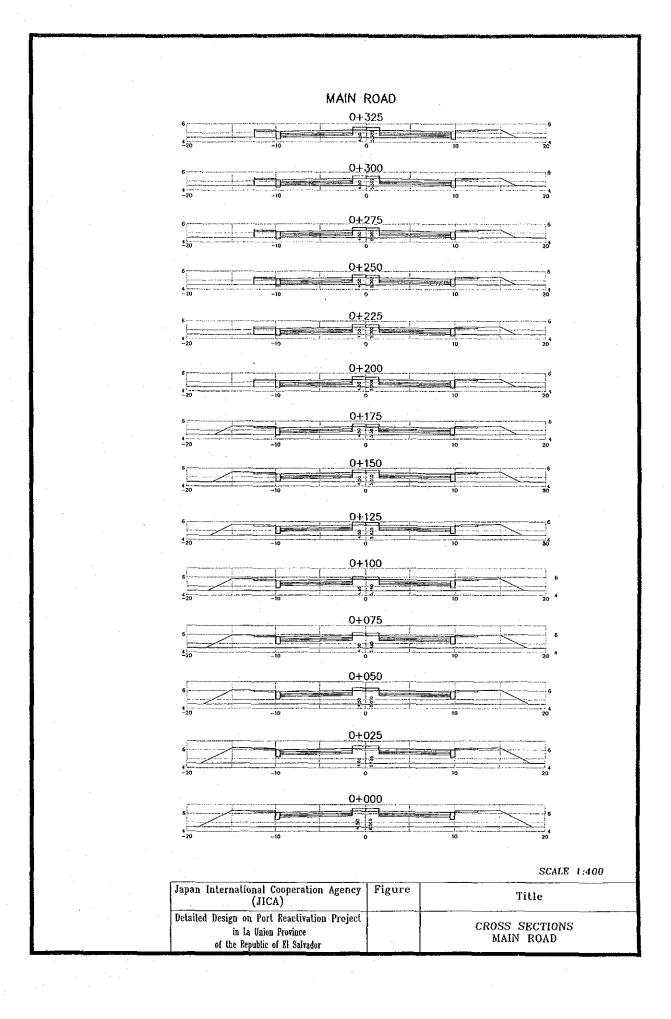
References, Calculation Base and Revisions

See attached drawings.

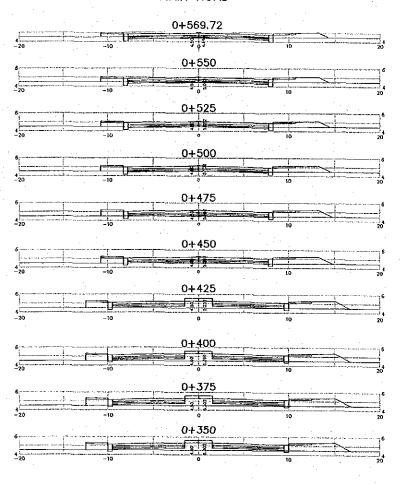
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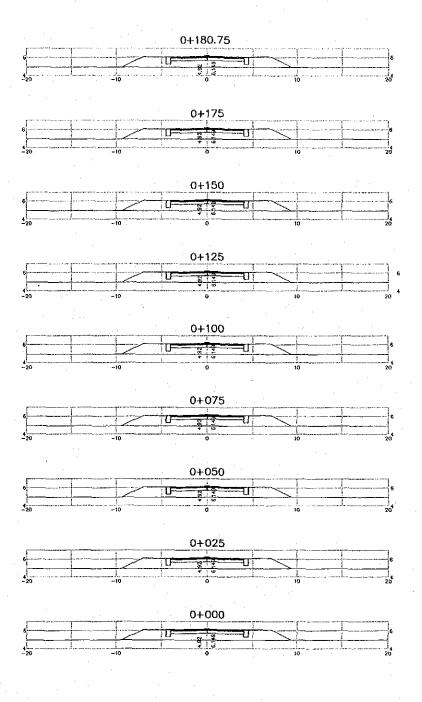
MAIN ROAD



SCALE 1:400

Japan International Cooperation Agency (JICA)	Figure	Title	
Detailed Design on Port Reactivation Project in La Union Province of the Republic of El Salvador		CROSS SECTIONS MAIN ROAD	

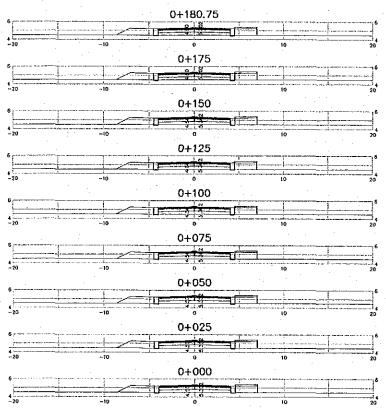
FEEDER 1



SCALE 1:400

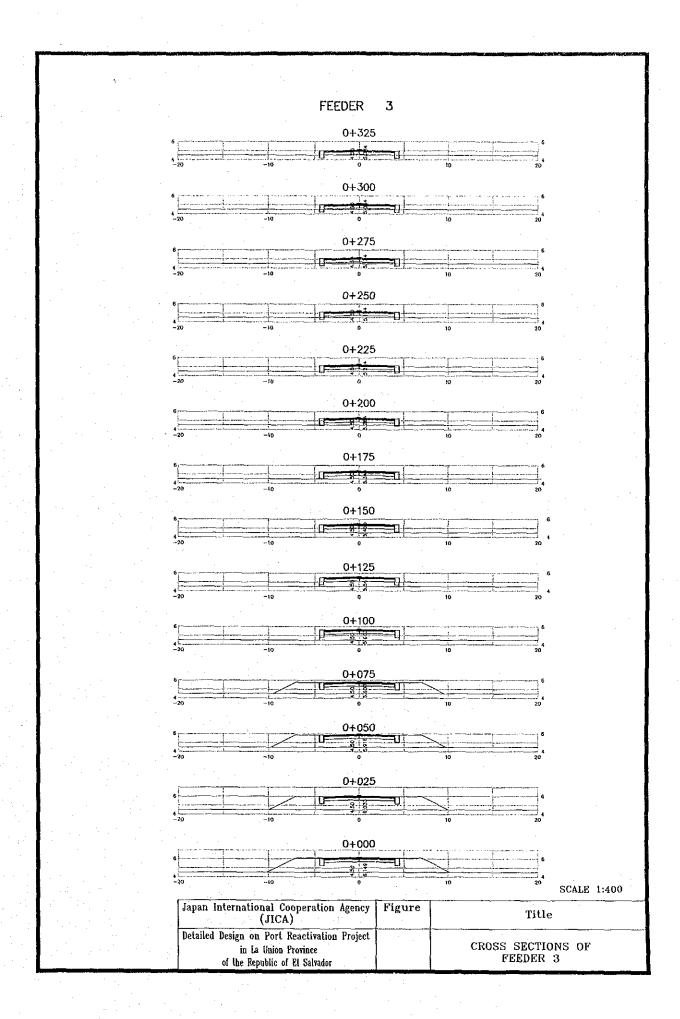
Japan International Cooperation Agency (JICA)	Figure	Title
Detailed Design on Port Reactivation Project in La Union Province of the Republic of El Salvador		CROSS SECTIONS OF FEEDER 1

FEEDER 2

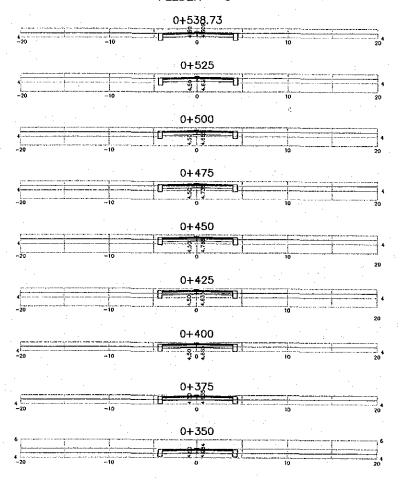


SCALE 1:400

Japan International Cooperation Agency (JICA)	Figure	Title
Detailed Design on Port Reactivation Project in La Union Province of the Republic of El Salvador		CROSS SECTIONS OF FEEDER 2



FEEDER 3



SCALE 1:400

Japan International Cooperation Agency (JICA)	Figure	Title
Detailed Design on Port Reactivation Project in La Union Province of the Republic of El Salvador		CROSS SECTIONS OF FEEDER 3

Cutuco Port, El Salvador

Project: cutuco Alignment: Road

END AREA VOLUME LISTING WITH CURVE CORRECTION

		Fill		Fill 1.000	Cut 1,0000	Fill 1.0000	
Station	Area (m2)	Area (m2)	Surface	SurfaceTot	Vol (m3)	Tot Vol (m3)	MassOrdinate
0+000	0.00	48,35					
			0.00	1150.80	0.00	1150.80	-1150.80
0+025	0.00	43.71					
			0.00	1035.69	0.00	2186.49	-2186.49
0+050	0.00	39.14					
			0.00	922.15	0.00	3108.64	-3108.64
0+075	0.00	34.63					
			0.00	810.17	0.00	3918.81	-3918.81
0+100	0.00	30.18					
-	<u> </u>		0.00	699.75	0.00	4618.56	-4618.56
0+125	0.00	25.80		 			
			0.00	590.89	0.00	5209.45	-5209.45
0+150	0.00	21,47					
			0.81	484.40	0.81	5693.85	-5693.04
0+175	0.07	17.28					
			2.61	362.63	3.42	6056.48	-6053.06
0+200	0.14	11.73					
			3.65	292.00	7.07	6348.48	-6341.41
0+225	0.15	11.63	: :	1.			
ļ			3.70	290.68	10.77	6639.17	-6628.39
0+250	0.15	11.63					
			3.70	290.68	14.47	6929.85	-6915.38
0+275	0.15	11.63					
			3.70	290.68	18.17	7220.53	-7202.36
0+300	0.15	11.63		2.5			
<u> </u>			3.70	290.68	21.87	7511.22	-7489.35
0+325	0.15	11.63	<u> </u>				·
	<u> </u>		3.70	290.68	25.57	7801.90	-7776.33
0+350	0.15	11.63					
			3.70	290.68	29.27	8092.59	-8063.31
0+375	0.15	11.63					
			3.78	288.48	33.05	8381.07	-8348.02
0+400	0.15	11.45					
			4.40	310.84	37.45	8691,91	-8654.46
0+425	0.20	10.22					
-			5.57	210.22	43.02	8902.13	-8859.10
0+450	0.25	6.60					
	<u> </u>		8.26	151.11	51.28	9053.24	-9001.96
0+475	0.41	5.49					
0.500	 		15.49	126.56	66.77	9179.79	-9113.03
0+500	0.83	4.64			<u> </u>		
0.505			28.95	108.36	95.72	9288.16	-9192.43
0+525	1.49	4.03	14.55				
0.550		L	47.51	95.39	143,24	9383.54	-9240.31
0+550	2.31	3.60					
0.500.55	0.00		22.79	35.46	166.02	9419.00	-9252.98
0+569.72	0.00	0.00			L	<u> </u>	

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Total

Road-vol_020710_seg main01 (2)

Project: cutuco Alignment: feeder1

END AREA VOLUME LISTING WITH CURVE CORRECTION

	10.4	lp:n	G . 1 00	Pull 1 00	G + 1 0000	T-111 4 0000	
	Cut	Fill	Cut 1.00	Fill 1.00	Cut 1.0000	Fill 1.0000	
Station	Area (m2)	Area (m2)	Volume (m3)	Volumc(m3)	Tot Vol (m3)	Tot Vol (m3)	Mass Ordinate
0+000	0	15.008					
			0	375.193	0	375.193	-375.193
0+025	0	15.007					5
			0	375.16	0	750.353	-750.353
0+050	0	15.006					
			0	375.128	0	1125.481	-1125,481
0+075	0	15.004		- :	:	7 7 7	
			. 0	375.095	0	1500.576	-1500.576
0+100	0	15.003					
			0	375.063	0	1875,639	-1875.639
0+125	0	15.002		-			
			0	375.03	0	2250.669	-2250.669
0+150	0	15.001					
			0	374.998	0	2625,667	-2625,667
0+175	0	14.999					
			0	86.245	- 0	2711.912	-2711.912
0+180.75	. 0	14.999					
				· - <u>-</u>			

Project: cutuco Alignment: feeder2

END AREA VOLUME LISTING WITH CURVE CORRECTION

	Cut	Fill	Cut 1.0000	Fill 1.0	Cut 1.0000	Fill 1.0000	
Station	Area (m2)	Area (m2)	Volume (m3)	Volume(m3)	Tot Vol (m3)	Tot Vol (m3)	Mass Ordinate
0+000	0.073	6.854					
			1.825	171.342	1.825	171.342	-169.517
0+025	0.073	6.854					
			1.825	171.342	3.65	342.684	-339.034
0+050	0.073	6.854					
			1.825	171.342	5.475	514.026	-508.551
0+075	0.073	6.854					
			1.825	171.342	7.3	685.368	-678.068
0+100	0.073	6.854					
			1.825	171.342	9.125	856.71	-847.585
0+125	0.073	6.854			:		
			1.825	171.342	10.95	1028.052	-1017.102
0+150	0.073	6.854					
	. : "		1.825	171.342	12.775	1199.394	-1186.619
0+175	0.073	6.854					:
			0.42	39.409	13.195	1238.803	-1225.608
0+180.75	0.073	6.854					

Project: cutuco Alignment: fr-3

END AREA VOLUME LISTING WITH CURVE CORRECTION

					* .		
	Cut	Fill	Cut 1.0000	Fill 1.0	Cut 1.0000	Fill 1.0000	
Station	Area (m2)	Area (m2)	Volume (m3)	Volume (m3)	Tot Vol (m3)	Tot Vol (m3)	Mass Ordinate
0+000	0	23.254				``	
			0	551.936	0	551.936	-551.936
0+025	0	20.9					
			0	493.764	0	1045.7	-1045.7
0+050	0	18.601			,		
			0	436.947	0	1482.647	-1482.647
0+075	0	16.355					
			0	278.112	0	1760.759	-1760.759
0+100	0	5.894					
			0	134.248	0	1895.007	-1895.007
0+125	0	4.846					
		-	0	108.052	0	2003.059	-2003.059
0+150	0	3.798					
			0.388	83.365	0.388	2086.424	-2086.036
0+175	0.031	2.871					2000.030
· · · · · · · · · · · · · · · · · · ·			1,524	65.786	1.912	2152.211	-2150.298
0+200	0.091	2.392					
-			2.897	54.803	4.81	2207.013	-2202.204
0+225	0.141	1.992		1 2		2207.015	-2202.204
			4.146	44.816	8.955	2251.83	-2242.874
0+250	0.191	1.593		111010	0.555	2231.03	-BE4E.074
		•	5,394	34.83	14.349	2286.66	-2272.311
0+275	0.241	1.193	31331	3 1.03	3,4,5,17	2.200.00	-6672.511
			6.642	24.844	20,992	2311.504	-2290.512
0+300	0.291	0.794	0.012	2	20.772	2.311.304	-2270.312
			7.891	14.858	28.882	2326.362	-2297.479
0+325	0.341	0.395		11135	20.002	2020.502	
·	1		10.169	5.902	39.052	2332.264	-2293.212
0+350	0.473	0.078			03,002	2032,201	22,3.212
			16.472	0.97	55.523	2333.234	-2277.71
0+375	0.845	0			33.323	2333.231	2277.71
			26.736	0	82.259	2333.234	-2250.974
0+400	1.294	0		-	02.239	2333.234	
			37.971	0	120.23	2333.234	-2213.003
0+425	1.744	0		<u> </u>	120:23	2000,204	-2213.003
		<u>-</u>	49.205	0	169.436	2333.234	-2163.798
0+450	2.193	0	15.205		105.450	2333.234	-2103.170
	1		60.44	0	229.875	2333.234	-2103.358
0+475	2.642	0		ļ <u>°</u>	227.075	2555.254	-2105.550
	3.3	<u>~</u>	71.674	0	301.55	2333.234	-2031.684
0+500	3.092	0		-	301.33	453,5534	-2001.004
	1	· · ·	77.637	0	379.186	2333.234	-1954.047
0+525	3.119	0	77.037		377.100	2333.234	-1734.047
	3.12		21.411	0	400.597	2333.234	-1932.636
0+538.73	0	0		 	400.397	4333.434	-1734.030
3.000,70	 			 	<u> </u>		

	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Land Reclaration	Pay Item No. (BOQ)	
Quantity Item	West Revetment	Unit	m o

Volume of land reclamation is needed to reduce volume of rubble (harbor side) and sand (harbor side) and coping of West Revetment.

References, Calculation Base and Revisions

See the item of offshore dumping of west revetment.

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Land Radamation	Pay Item No. (BOQ)	
Quantity Item	East Reveluent	Unit	шз

Volume of land reclamation is needed to reduce volume of rubble (harbor side) and sand (harborside) and coping it East Revolument.

References, Calculation Base and Revisions

See the item of offshore dumping of east revertment.

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Land Reclaration	Pay Item No. (BOQ)	
Quantity Item	West Bund	Unit	m³

A part of West Bund is in the Reclamation area.

So, reclamation volume is needed to reduce this volume.

References, Calculation Base and Revisions

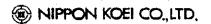
See the tem of sand of west bund.

(2A-1804)

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001							
Work Section Title	Land Reclamation	Pay Item No. (BOQ)								
Quantity Item	East Bund	Unit	M3							

A part of East Bund is in the Reclamation area.

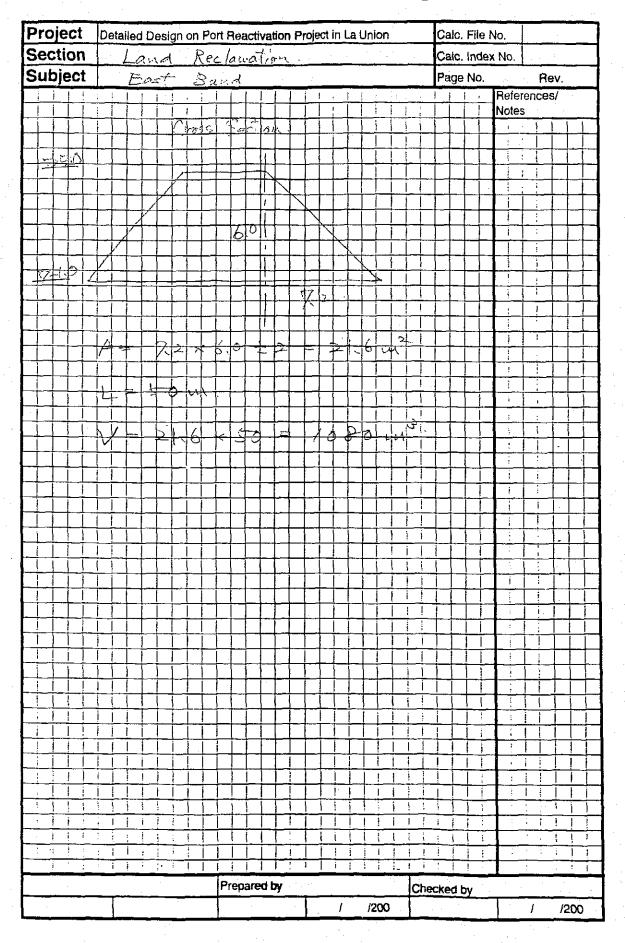
So, reclamation volume is needed to reduce this volume.

References. Calculation Base and Revisions

See the item of sand of east bund (2A-1305)

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QUANTITY CALCULATION COVER SHEET											
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	Land Reclamation	Pay Item No. (BOQ)	2F-0202								
Quantity Item	Dumping Area A	Unit	M3								

Onshore dumping for Damping Area A is need to combine with Excavation for Foundation (harbor side) and reduce volume of Rubble stone (harbor side) and Sand Replacement (harbor side).

References, Calculation Base and Revisions

See the attached items

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	QUANTITY CALCULATION COVER SHEET										
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	The state of the s								
Work Section Title	Reclamation Work	Pay Item No. (BOQ)									
Quantity Item	Land Reclamation by Dredged Mat. Zone A	Unit	cubic meter								

- 1. Calculation of Area of Sections (Excel)
- 2. Average area of Sections (Excel)
- 3. Calculation of volume. Average of area of sections times distance between sections (Excel)

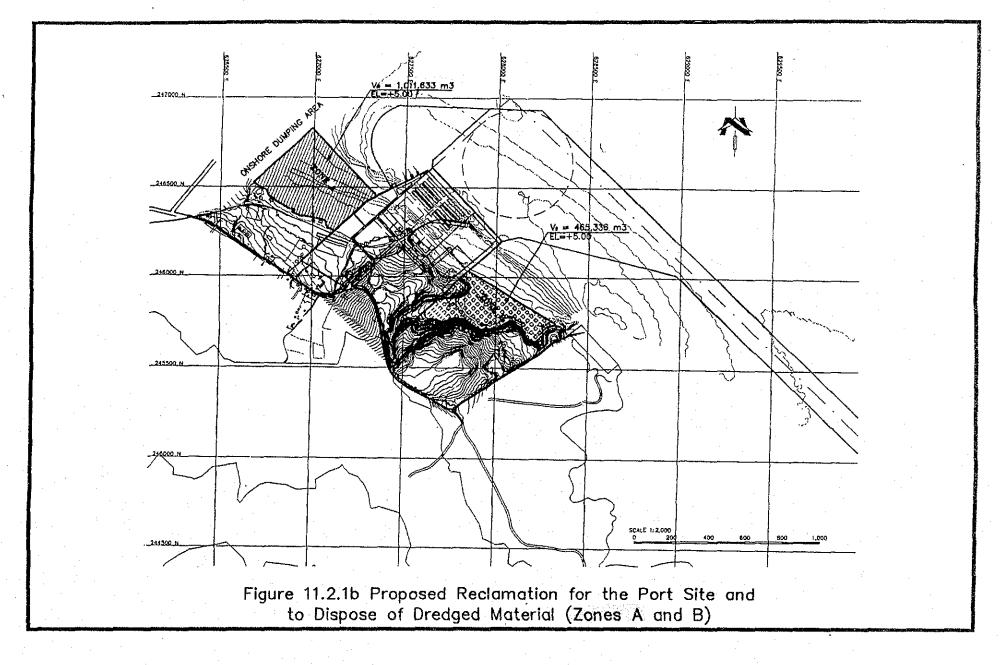
References, Calculation Base and Revisions

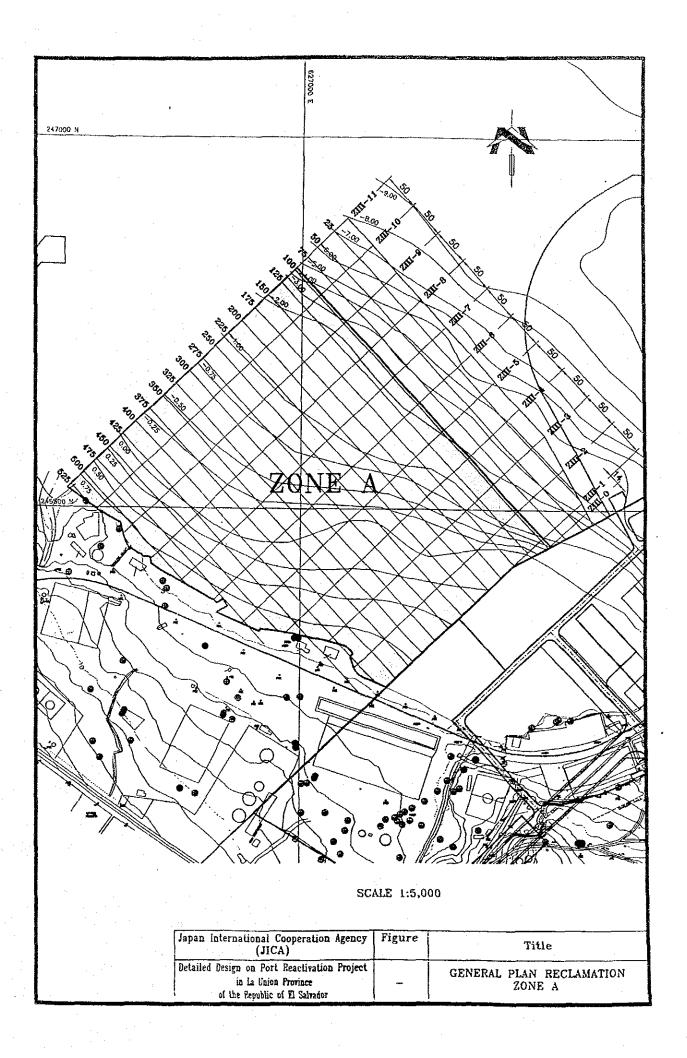
- 1. Area and Volume have been calculated starting from Section ZIII-0 to ZIII-11 in accordance to Drawing N°: GENERAL PLAN RECLAMATION ZONE A.
- 2. Design Information:

Height of Reclamation: +5.00 meters

Rev	Pre	pared	No. of	Chec	ked	Revi	ewed	Superseded		
	by	Date	Pages	by	Date	by	Date	by Calc No.		
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File in Calc. File





VOLUME RECLAMATION ZONE A; 27 JUNE 2002

ELEVATION: +5.00 mt

SECTION N°	AREA	AVERAGE AREA OF 2 SECTIONS		DISTANCE BETWEEN SECTIONS	VOLUME
ZIII-0	127.19		· · · · · · · · · · · · · · · · · · ·		
		756.09		14.00	10,585
ZIII-1	1,385.00		· · · · · · · · · · · · · · · · · · ·		
→ 01. 6		1,405.63	·····	50.00	70,281
ZIII-2	1,426.25		·		
701.0		1,460.31	 	50.00	73,016
ZIII-3	1,494.38				
		1,615.14		50.00	80,757
ZIII-4	1,735.90				
77111.6		1,837.95	·	50.00	91,898
ZIII-5	1,940.00				
		2,023.15		50.00	101,158
ZIII-6	2,106.30				<u> </u>
		2,161.28		50.00	108,064
ZIII-7	2,216.25		 		1 4 1 4
		2,282.00	<u> </u>	50.00	114,100
ZIII-8	2,347.75		· · · · · · · · · · · · · · · · · · ·		
501.5		2,368.88		50.00	118,444
ZIII-9	2,390.00				
701 40		2,405.63	<u></u>	50.00	120,281
ZIII-10	2,421.25				
		2,461.00		50.00	123,050
ZIII-11	2,500.75		·		
			- · · · · · · · · · · · · · · · · · · ·		
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···					
		·	· · · · · · · · · · · · · · · · · · ·		
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VOLUME RECLAMATION ZONE A:

1,011,633 m³

	Natural ground	:	Difference of	Average of		
L	elevation; a	Final Elevation: b	elevation; c= b∙a	elevation	Width: d	area: e= c*d

Section N° ZIII-0

distance	a	b	С	C'	d	е
39						
50						
75					12 2 2	
						<u> </u>
100	-0.50	5.00	5.50			
		:		5.25	25.00	131.25
125	0.00	5.00	5.00			
				4.93	25.00	123.13
150	0.15	5.00	4.85			
	-					

127.19 m²

NOTE: this area is divided by 2 because of triangular form

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e= c*d

Section N° ZIII-1

distance	a	b	С	c'	d	е
]		
				·		
				1 41		
						1 1
100	-0.75	5.00	5.75			
				5.38	25.00	134.38
125	0.00	5.00	5.00			
. 1	·			4.95	25.00	123.75
150	0.10	5.00	4.90			1 1 1 1 1 1
	<u> </u>		<u> </u>	4.85	25.00	121.25
175	0.20	5.00	4.80			
				4.78	25.00	119.38
200	0.25	5.00	4.75			1.1
				4.70	25.00	117.50
225	0.35	5.00	4.65			
				4.60	25.00	115.00
250	0.45	5.00	. 4.55		i kan bata	
	<u> </u>			4.53	25.00	113.13
275	0.50	5.00	4.50			
				4.48	25.00	111.88
300	0.55	5.00	4.45			
	· - · · · · · · · · · · · · · · · · · ·	<u> </u>		4.40	25.00	110.00
325	0.65	5.00	4.35			
	 		1000	4.30	25.00	107.50
350	0.75	5.00	4.25			
				4.25	25.00	106.25
375	0.75	5.00	4.25			
				4.20	25.00	105.00
400	0.85	5.00	4.15			

1,385.00 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≃ c'd

Section N° ZIII-2

distance	a	b	Т с	C'	d	T e
		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
						· · · · · · · · · · · · · · · · · · ·
			<u> </u>			
			1			
11 11 11						
100	-1.25	5.00	6.25			
				6.00	25.00	150.00
125	-0.75	5.00	5.75			
		*. *		5.38	25.00	134.38
150	0.00	5.00	5.00			
+ 1			40.00	5,00	25.00	125.00
175	0.00	5.00	5.00		*.	
				4.93	25.00	123.13
200	0.15	5.00	4.85		*.	<u> </u>
· · · · · · · · · · · · · · · · · · ·				4.80	25.00	120.00
225	0.25	5.00	4.75			: :
1, 1, 1, 1, 1				4.70	25.00	117.50
250	0.35	5.00	. 4.65			
		<u></u>		4.60	25.00	115.00
275	0.45	5.00	4.55		·	
		·	<u> </u>	4.50	25.00	112.50
300	0.55	5.00	4.45			
005				4.40	25.00	110.00
325	0.65	5.00	4.35			<u> </u>
	0.70	- - - - - - - - - -		4.33	25.00	108.13
350	0.70	5.00	4.30			
075	0.00		 	4.25	25.00	106.28
375	0.80	5.00	4.20	1.12		
	0.05	F 50	1	4.18	25.00	104.38
400	0.85	5.00	4.15			

1426.25 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a		Width: d	area: e= c*d

Section N° ZIII-3

distance	a	ь	С	c'	d	е
,						
·				-		
					-	
				4.00		
						1.
100						
100	-1.60	5.00	6.60			7. 7.
				6.35	25.00	158.75
125	-1.10	5.00	6.10			
				5.75	25.00	143.75
150	-0.40	5.00	5.40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
				5.35	25.00	133.75
175	-0.30	5.00	5.30			dis.
			1.5	5.25	25.00	131.25
200	-0.20	5.00	5.20	1 1 1 1 1 1 1 1 1	e en si e es	
				5.10	25.00	127.50
225	0.00	5.00	5.00		2.00	
				4.93	25.00	123.13
250	0.15	5.00	4.85			
				4.80	25.00	120.00
275	0.25	5.00	4.75			
			*	4.70	25.00	117.50
300	0.35	5.00	4.65			7 1 1 1 1
				4.58	25.00	114.38
325	0.50	5.00	4.50			
				4.43	25.00	110.63
350	0.65	5.00	4.35			
				4.33	25.00	108.13
375	0.70	5.00	4.30			
		<u> </u>		4.23	25.00	105.63
400	0.85	5.00	4.15		1 1 1	

1494.38 m²

Natural ground		Difference of	Average of	**************************************	
	Final Elevation: b		elevation	Width: d	area: o= c*d

Section N° ZIII-4

distance	a	b .	С	C¹	d	е
	2.1	1 11		· ·		
	255 1					
					:	
			_			
	·					
1 1	1					
	100					
100	-1.80	5.00	6.80			
				6.53	25.00	163.13
125	-1.25	5.00	6.25			
		25 4 34		6.05	25.00	151.25
150	-0.85	5.00	5.85	<u> </u>		100
		·	1	5.75	25.00	143.75
175	-0.65	5.00	5.65	<u> </u>		
	28 8 8		· · ·	5.50	25.00	137.50
200	-0.35	5.00	5.35			
				5.25	25.00	131.25
225	-0.15	5.00	5.15			
				5.05	25.00	126.25
250	0.05	5.00	4.95			
1 11				4.90	25.00	122.50
275	0.15	5.00	4.85	<u> </u>		
		<u> </u>		4.80	25.00	120.00
300	0.25	5.00	4.75			
				4.70	25.00	117.50
325	0.35	5.00	4.65			
4			·	4.60	25.00	115.00
350	0.45	5.00	4.55			
	er*			4.48	25.00	111.88
375	0.60	5.00	4.40		1000	
				4.35	25.00	108.75
400	0.70	5.00	4.30			
	2.5			4.28	25.00	106.88
425	0.75	5.00	4.25			
				4.23	19.00	80.28
444	08.0	5.00	4.20			
	\					
		0 · ·				

1735.9 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e= c*d

Section N° ZIII-5

distance	a	b	C	c'	d	е
			2.7			
						100
			<u> </u>			
	· · · · · · · · · · · · · · · · · · ·					
	<u> </u>					
400		500				_
100	-2.25	5.00	7.25			
400	4.00	5.00		6.93	25.00	173.13
125	-1.60	5.00	6.60			
150	-1.25	F 00		6.43	25.00	160.63
150	-1.25	5.00	6.25	0.05	05.00	
175	-0.85	5.00	F.0F	6.05	25.00	151.25
175	-0,05	5.00	5.85		05.00	
200	-0.65	5.00	5.65	5.75	25.00	143.75
2.00	-0.03	5.00	5.05	5.50	25.00	407.50
225	-0.35	5.00	5.35	5.50	25.00	137.50
	0.00	0.00	3.00	5.30	25.00	132.50
250	-0.25	5.00	5.25		25.00	132.50
	0.20		0.20	5.13	25.00	128.13
275	0.00	5.00	5.00	3.10	20.00	120.13
				4.93	25.00	123.13
300	0.15	5.00	4.85	- 1133	20.00	120.10
				4.83	25.00	120.63
325	0.20	5.00	4.80	,,,,,	4	120.00
				4.78	25.00	119.38
350	0.25	5.00	4.75			
				4.68	25.00	116.88
375	0.40	5.00	4.60			
				4.53	25.00	113.13
400	0.55	5.00	4.45			1 1
		* + A		4.40	25.00	110.00
425	0.65	5.00	4.35			
				4.28	25.00	106.88
450	0.80	5.00	4.20			
470				4.13	25.00	103.13
475	0.95	5.00	4.05			

1940.00 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≕ c*d

Section N° ZIII-6

distance	а	b	C	C'	d	е
· · · · · · · · · · · · · · · · · · ·					<u> </u>	<u> </u>
			<u> </u>			
					<u> </u>	
				 	 	
	1 40 4 40					
100	-2.40	5.00	7.40			<u> </u>
405		=		7.10	25.00	177.50
125	-1.80	5.00	6.80	0.05		
150	-1.50	5.00	6.50	6.65	25.00	166.25
130	-1.50	5.00	6.50	6.38	25.00	159.38
175	-1.25	5.00	6.25	0.30	25.00	159.30
	1.23	0.00	0.20	6.13	25.00	153.13
200	-1.00	5.00	6.00	0.10	20.00	100.10
				5.88	25.00	146.88
225	-0.75	5.00	5.75	<u> </u>		
H - 1				5.63	25.00	140.63
250	-0.50	5.00	5.50			
435 types		4, 3		5.40	25.00	135.00
275	-0.30	5.00	5.30			
000				5.25	25.00	131.25
300	-0.20	5.00	5.20			
325	0.15	5.00	5.15	5.18	25.00	129.38
323	-0.15	5.00	5.15	5.10	25.00	407.50
350	-0.05	5.00	5.05	5.10	25.00	127.50
	10.00	3.00	3.05	5.00	25.00	125.00
375	0.05	5.00	4.95	0.55	25.00	320.00
				4.85	25.00	121.25
400	0.25	5.00	4.75			
1914				4.65	25.00	116.25
425	0.45	5.00	4.55			
				4.45	25.00	111.25
450	0.65	5.00	4.35			
470				4.28	25.00	106.88
475	0.80	5.00	4.20			· · · · · · · · · · · · · · · · · · ·
400	0.00	5.00	4.00	4.20	14.00	58.80
489	0.80	5.00	4.20		<u> </u>	

2106.30 m²

Natural ground		Difference of	Average of	7.2.	
elevation: a	Final Elevation: b		elevation	Width: d	area: e= c⁴d

Section N° ZIII-7

distance	a	b	С	C'	d	6
		ļ				
		 	 		 	
		 	 	-		·
		 			 	
						· · · · · · · · · · · · · · · · · · ·
			T		 	 :
100	-2.50	5.00	7.50	4. 4. 4. 1	 	- 1
		1		7.20	25.00	180.00
125	-1.90	5.00	6.90			700.00
				6.75	25.00	168.75
150	-1.60	5.00	6.60			
<u> </u>	·			6.45	25.00	161.25
175	-1.30	5.00	6.30			
		<u> </u>		6.23	25.00	155.63
200	-1.15	5.00	6.15			
				5.98	25.00	149.38
225	-0.80	5.00	5.80			
250	0.75	T 00	<u> </u>	5.78	25.00	144.38
	-0.75	5.00	5.75			
275	-0.65	5.00	5.65	5.70	25.00	142.50
2.10	*0.05	3.00	3.05	5.58	05.00	400.00
300	-0.50	5.00	5.50	5.56	25.00	139.38
	- 0.00	0.00	3.30	5.35	25.00	100.76
325	-0.20	5.00	5.20	0.00	23.00	133.75
			0.20	5.25	25.00	131.25
350	-0.30	5.00	5.30		20.00	131.20
	-,**	,		5.23	25.00	130.63
375	-0.15	5.00	5.15			100.00
			*	5.08	25.00	126.88
400	0.00	5.00	5.00			
				4.88	25.00	121.88
425	0.25	5.00	4.75			
		<u> </u>		4.60	25.00	115.00
450	0.55	5.00	4.45			
A75	0.70	F 00	\	4.38	25.00	109.38
475	0.70	5.00	4.30			
500	0.80	<u> </u>	1.00	4.25	25.00	106.25
300	0.80	5.00	4.20			

Natural ground		Difference of	Average of		array and the state of the stat
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area; e≃ c*d

Section N° ZIII-8

distance	a	þ ·	С	c'	l d l	е
		1				
					<u> </u>	
					1	
100						
100	-2.50	5.00	7.50	7.00	0.00	100.00
125	-1.90	5.00	6.90	7.20	25.00	180.00
		0.00	1 0.00	6.80	25.00	170.00
150	-1.70	5.00	6.70			., 0.00
				6.53	25.00	163.13
175	-1.35	5.00	6.35	0.00		
200	-1.30	5.00	6,30	6.33	25.00	158.13
	-1.00	3.00	0,30	6.15	25.00	153.75
225	-1.00	5.00	6.00	3.10	25.00	100,70
				5.93	25.00	148.13
250	-0.85	5.00	5.85			
275	-0.70	5.00	5.70	5.78	25.00	144.38
213		5.00	5.70	5.65	25.00	141.25
300	-0.60	5.00	5.60	0.00	25.00	141.20
	1, 1			5.55	25.00	138.75
325	-0.50	5.00	5.50			
250		F 00		5.40	25.00	135.00
350	-0.30	5.00	5.30	5.28	05.00	
375	-0.25	5.00	5.25	5.20	25.00	131.88
		0.00	0.20	5.20	25.00	130.00
400	-0.15	5.00	5.15			
				5.08	25.00	126.88
425	0.00	5.00	5.00	4.00		· · · · · · · · · · · · · · · · · · ·
450	0.35	5.00	4.65	4.83	25.00	120.63
	0.00	0.00	4.55	4.55	25.00	113.75
475	0.55	5.00	4.45			110.70
				4.33	25.00	108.13
500	0.80	5.00	4.20			
520	0.80	5.00	4.20	4.20	20.00	84.00
040	0.30	5.00	<u> 4.20</u>	· · · · · · · · · · · · · · · · · · ·	 	·

Natural ground		Difference of	Average of			
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e= c*d	

Section N° ZIII-9

distance	а	b	С	C,	d	е
			<u> </u> 		 	· · · · · · · · · · · · · · · · · · ·
					1	
				<u> </u>		
			<u> </u>			
100	-2.60	5.00	7.60	-		
100	-2.00	5.00	7.60	7.25	25.00	181,25
125	-1.90	5.00	6.90		1 20.00	101,20
	- 1 75		0.75	6.83	25.00	170.63
150	-1.75	5.00	6.75	6.63	25.00	105.00
175	-1.50	5.00	6.50	0.03	25.00	165.63
				6.38	25.00	159.38
200	-1.25	5.00	6.25			
225	-1.10	5.00	6.10	6.18	25.00	154.38
				5.98	25.00	149.38
250	-0.85	5.00	5.85			
275	-0.75	5.00	5.75	5.80	25.00	145.00
	0.70	3.00	0.70	5.70	25.00	142.50
300	-0.65	5.00	5.65			
325	-0.60	5.00	5.60	5.63	25.00	140.63
- 020	-0.00	5.00	5.00	5.48	25.00	136.88
350	-0.35	5.00	5.35		20.00	100.00
375	-0.30	5.00	5.00	5.33	25.00	133.13
3/3	-0.30	5.00	5.30	5.23	25.00	130.63
400	-0.15	5.00	5.15	0.20	23.00	130.03
425	0.05			5.10	25.00	127.50
425	-0.05	5.00	5.05	4.93	25.00	100.40
450	0.20	5.00	4.80	7.30	25.00	123.13
475				4.65	25.00	116.25
475	0.50	5.00	4.50	4.35	05.00	400 ==
500	0.80	5.00	4.20	4.30	25.00	108.75
				4.20	25.00	105.00
522	0.80	5.00	4.20			
			1		 	

2390.00 m²

Natural ground		Difference of	Average of			
elevation; a	Final Elevation: b	efevation: c≔ b-a	elevation	Width: d	area: e≕ c*d	ĺ

Section N° ZIII-10

distance	а	b	С	c'	d	е
<u>-</u>		<u> </u>				
			<u> </u>			
			<u> </u>		 	
					1	
100	-3.40	5.00	8.40			
100	-0.40	5.00	0.40	7.90	25.00	197.50
125	-2.40	5.00	7.40	7.55	25.00	197.30
				7.10	25.00	177.50
150	-1.80	5.00	6.80			
477				6.73	25.00	168.13
175	-1.65	5.00	6.65	0.40	·	
200	-1.30	5.00	6.30	6.48	25.00	161.88
	1.00	3.00	0.30	6.20	25.00	155.00
225	-1.10	5.00	6.10	0.20	25.00	100.00
				5.98	25.00	149.38
250	-0.85	5.00	5.85			
				5.83	25.00	145.63
275	-0.80	5.00	5.80	5 70		
300	-0.65	5.00	5.65	5.73	25.00	143.10
- 000	-0.00	3.00	5.05	5.63	25.00	140.63
325	-0.60	5.00	5.60	3.00	23.00	140.00
				5.48	25.00	136.88
350	-0.35	5,00	5.35			
				5.33	25.00	133.13
375	-0.30	5.00	5.30	F 00		· · · · · · · · · · · · · · · · · · ·
400	-0.15	5.00	5.15	5.23	25.00	130.63
100	0.15	3.00	3.13	5.10	25.00	127.50
425	-0.05	5.00	5.05	0.10	25.00	127.00
				4.93	25.00	123.13
450	0.20	5.00	4.80			
475	0.45	5.00		4.68	25.00	116.88
475	0.45	5.00	4.55	4.38	05.00	
500	0.80	5.00	4.20	4.38	25.00	109.38
330		0.00	4,20	4.20	25.00	105.00
525	0.80	5.00	4.20		25.00	,00.00
		100				

Natural ground		Difference of	Average of		***************************************
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≃ c*d

Section N° ZIII-11

distance	a	ь	С	c'	d	е
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100	-4.40	5.00	9.40			
400				8.58	25.00	214.38
. 125	-2.75	5.00	7.75			
450				7.50	25.00	187.50
150	-2.25	5.00	7.25			
175	4 ****			7.00	25.00	175.00
175	-1.75	5.00	6.75			
200				6,58	25.00	164.38
200	-1.40	. 5.00	6.40		<u> </u>	·
225	1.40	5.00	0.10	6.25	25.00	156.25
225	-1.10	5.00	6.10		ļ <u>.</u>	
250	-0.85	5.00		5.98	25.00	149.38
2.50	-0.00	5.00	5.85		<u> </u>	
275	-0.80	5.00	5.00	5.83	25.00	145.63
2/3	*0.60	5.00	5.80	0		· · · · · · · · · · · · · · · · · · ·
300	-0.65	5.00	F 65	5.73	25.00	143.13
- 500	-0.03	3.00	5.65	5.00		
325	-0.60	5.00	5.60	5.63	25.00	140.63
	0.00	3.00	5.00	5.48	05.00	400.00
350	-0.35	5.00	5.35	3.40	25.00	136.88
		0.00	0.00	5.33	25.00	100 10
375	-0.30	5.00	5.30	3.30	25.00	133.13
-			0.00	5.23	25.00	100.63
400	-0.15	5.00	5.15	3,20	25.00	130.63
			0.7.0	5.10	25.00	127.50
425	-0.05	5.00	5.05	0.10	20.00	127.30
				4.93	25.00	123.13
450	0.20	5.00	4.80		20.00	120.10
				4.68	25.00	116.88
475	0.45	5.00	4.55			110.00
				4.38	25.00	109.38
500	0.80	5.00	4.20		† -	,00.00
				4.20	25.00	105.00
525	0.80	5.00	4.20			
				4.20	10.00	42.00
535	0.80	5.00	4.20			
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16-May-02 NATURAL GROUND ELEVATIONS AREA OF RECLAMATION ZONE III (ZONE A)

SECTION N°			525	500	475	450	425	400	375	350	325	300	275	250	225	200	175_	150	125	100	75	50	25	0
ZIII-0				1 -							h				Γ			0.15	0	-0.5	-1.25	-2	-3	
ZIII-1			[0.85	0.75	0.75	0.65	0.55	0.50	0.45	0.35	0.25	0.20	0.10	0.00	-0.75	-1.50	-2.40	-3.00	1
ZIII-2								0.85	0.80	0.70	0.65	0.55	0.45	0.35	0.25	0.15	0.00	0.00	-0.75	-1.25	-1.75	-3.00	-4.00	-4.25
ZIII-3					` ' ' ' '			0.85	0.70	0.65	0.50	0.35	0.25	0.15	0.00	-0.20	-0.30	-0.40	-1.10	-1.60	-2.25	-3.25	-4.00	-4.50
ZIII-4	i					0.80	0.75	0.70	0.60	0.45	0.35	0.25	0.15	0.05	-0.15	-0.35	-0.65	-0.85	-1.25	-1.80	-2.50	-3.30	-4.00	-4.50
ZIII-5					0.95	0.80	0.65	0.55	0.40	0.25	0.20	0.15	0.00	-0.25	-0.35	-0.65	-0.85	-1.25	-1.60	-2.25	-2.60	-3.35	-4.25	-5.00
Ziii-6]		Ì	0.80	0.80	0.65	0.45	0.25	0.05	-0.05	-0.15	-0.20	-0.30	-0.50	-0.75	-1.00	-1,25	-1.50	-1.80	-2.40	-2.75	-3.75	-4.75	-5.50
ZIII-7				0.80	0.70	0.55	0.25	0.00	-0.15	-0.30	-0.20	-0.50	-0.65	-0.75	-0.80	-1.15	-1.30	-1.60	-1.90	-2.50	-3.00	-3.95	-4.50	-5.40
ZIII-8			0.80	0.80	0.55	0.35	0.00	-0.15	-0.25	-0.30	-0.50	-0.60	-0.70	-0.85	-1.00	-1.30	-1.35	-1.70	-1.90	-2.50	-3.00	-4.25	~5.00	-6.00
ZIII-9			0.80	0.80	0.50	0.20	-0.05	-0.15	-0.30	-0.35	-0.60	-0.65	-0.75	-0.85	-1.10	-1.25	-1.50	-1.75	-1.90	-2.60	-3.60	-5.00	<i>-</i> 5.75	-6.75
ZIII-10			0.80	0.80	0,45	0.20	~0.05	-0.15	-0.30	-0.35	-0.60	-0.65	-0.80	-0.85	-1.10		-1.65	-1.80	-2.40	<u>-3,40</u>	-4.50	<i>-</i> 5.60	-6.50	<i>-</i> 7.25
ZIII-11	li	0.80	0.80	0.80	0.45	0.20	-0.05	-0.15	-0.30	-0.35	-0.60	-0.65	-0.80	-0.85	-1.10	-1.40	-1.75	-2.25	-2.75	-4.40	- 5.40	-6.25	-7.00	-7.50
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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Land Reclanation	Pay Item No. (BOQ)	2F-0203
Quantity Item	Dumping Area B	Unit	m ³

Calculation Procedure Applied

Onshere dumping volume for Dumping Area B is needed to combine with Excavation for Foundation (harbor side) and veduce volume of Rubble stone (harbor side) and Saud Replacement (harbor side).

References, Calculation Base and Revisions

See the attached items.

Rev	Prep	ared	No. of	Chec	ked	Revie	wed	Superseded
1164	by o	Date	Pages	by	Date	by	Date	by Calc No.
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(B) NIPPON KOEI CO., LTD.

Project	Detailed Design on Po	rt Reactivation Project in La Union	Calc. File No.
Section	. Land Rec		Calc. Index No.
Subject			Page No. Rev.
	Tan Disa		References/
			Notes
			
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	QUANTITY CALCULATION O	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	
Work Section Title	Reclamation Work	Pay item No. (BOQ)	
Quantity Item	Land Reclamation by Dredged Mat. Zone B	Unit	cubic meter

Calculation Procedure Applied

- 1. Calculation of area of Sections (Excel)
- 2. Average area of Sections (Excel)
- 3. Calculation of Volume: Average of area of sections times distance between sections (Excel)

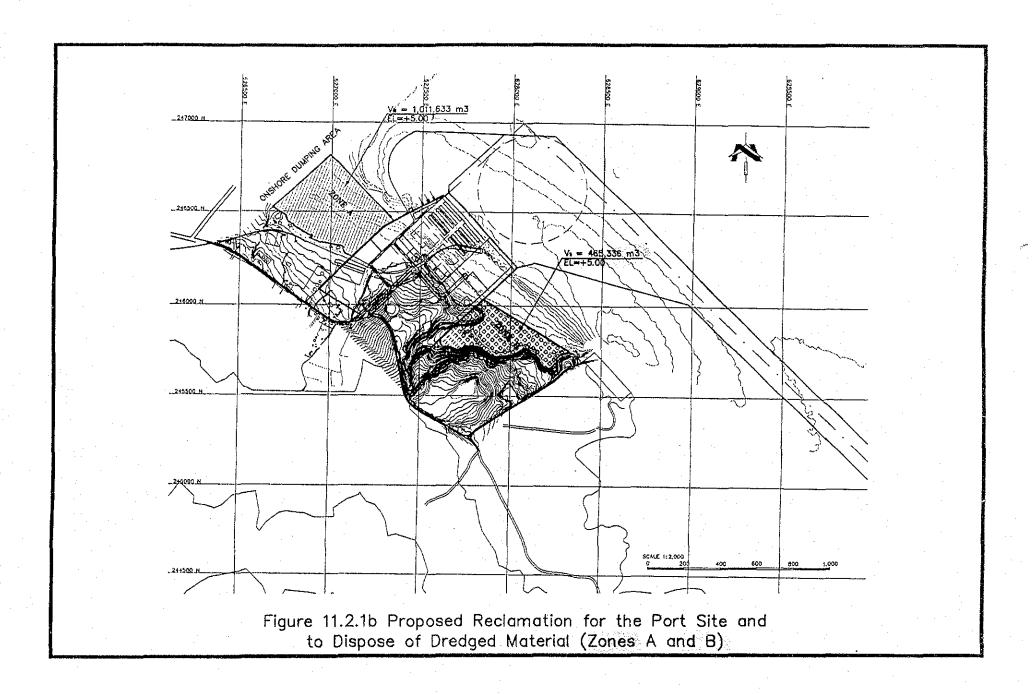
References, Calculation Base and Revisions

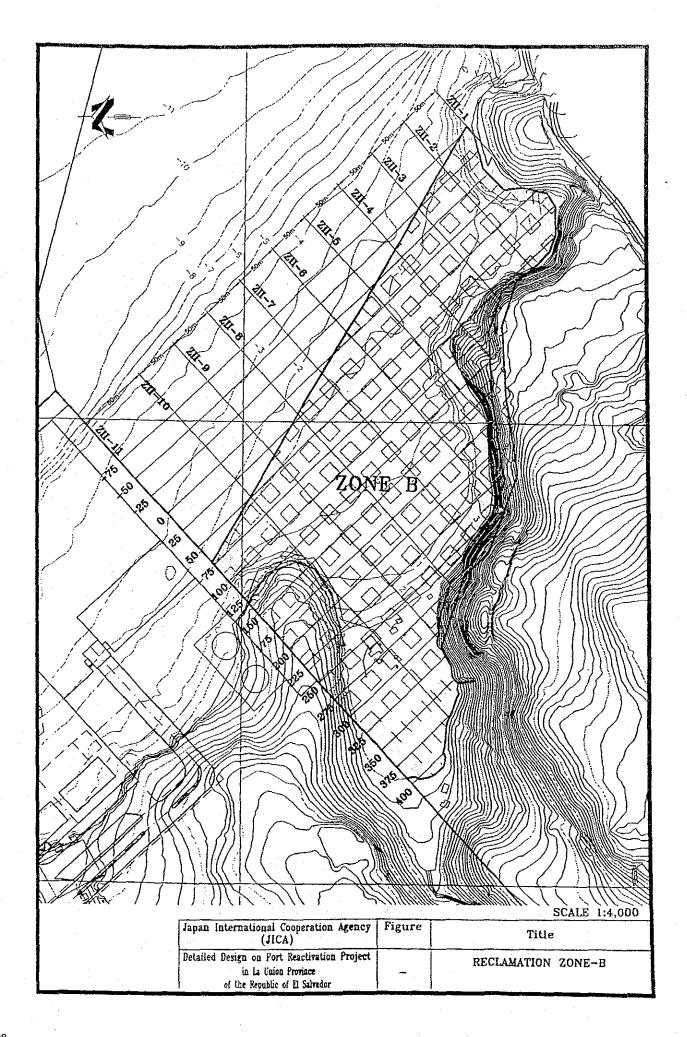
- 1. Area and volume have been calculated starting from Section ZII-1 to ZII-11 in accordance to drawing N°: RECLAMATION ZONE B.
- 2. Design Information:

Height of reclamation: +5.00 meters

Rev	P	rep	ared	No. of	Chec	ked	Revie	wed	Superseded
1101	by		Date	Pages	by	Date	by	Date	by Calc No.
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File in Calc. File





VOLUME RECLAMATION ZONE B; 26 JUNE 2002

ELEVATION: +5.00 mt

SECTION N°	AREA	AVERAGE AREA OF 2 SECTIONS		DISTANCE BETWEEN SECTIONS	VOLUME
					
ZII-1	299.70	2 2			
		509.23		50,00	25,461
ZII-2	718.75				:
		673.85		50.00	33,693
ZII-3	628.95				
		616.35		50.00	30,818
ZII-4	603.75				1 2 4 2
	_	746.58		50.00	37,329
ZII-5	889.40				
		1,108.26		50.00	55,413
ZII-6	1,327.13				
		1,291.26		50.00	64,563
ZII-7	1,255.40			1 11	
		1,225.95		50.00	61,298
ZII-8	1,196.50		and the second		
		1,151.15		50.00	57,558
ZII-9	1,105.80			4 4 4	1 1 1
		989.78		50.00	49,489
ZII-10	873.75			-	
		621.45		80.00	49,716
ZII-11	369.15				
					1.3
١.					

VOLUME RECLAMATION ZONE B

465,336 m³

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation; c= b-a	elevation	Width: d	area: e= c'd

Section N° ZII-1

distance	a	b	С	C'	d	е
					-	
-75	-1.00	5.00	6.00	1		
				3,00	25.00	75.00
-50	5.00	5.00	0.00			
				0.00	25,00	0.00
-25	5.00	5.00	0.00			
				1.45	25.00	36.25
0	2.10	5.00	2.90		+ .i	
				3.35	25.00	83.75
25	1,20	5.00	3.80			
				3.10	25.00	77.50
50	2.60	5.00	2.40			
				1.70	16.00	27.20
66	4.00	5.00	1.00			
·				4.		, , , , , , , , , , , , , , , , , , , ,

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e⇒ c*d

Section N° ZII-2

distance	a	b	c	C'	d	е
-62.5	-1.20	5.00	6.20			
				6.10	12.50	76.25
-50	-1.00	5.00	6.00		17	
				5.80	25.00	145.00
-25	-0.60	5.00	5.60			
			1112	5.40	25.00	135.00
0	-0.20	5.00	5.20			
				5.10	25.00	127.50
25	0.00	5.00	5.00			
				4.90	25.00	122.50
50	0.20	5.00	4.80	1 m		
				3.90	25.00	97.50
75	2.00	5.00	3.00			
				1.50	10.00	15.00
85	5.00	5.00	0.00			V
					Α.	
		[

Natural ground	Difference of	Average of		
elevation; a Final El	evation: b elevation: c= b-a	elevation	Width: d	area: e= c*d

Section N° ZII-3

distance	а	b	С	c'	d	е
-44	-1.20	5.00	6.20			
				6.15	23.00	141.45
-25	-1.10	5.00	6.10			
				5.85	25.00	146.25
0	-0.60	5.00	5.60			
				5.50	25.00	137.50
25	-0.40	5.00	5.40			
				4.50	25.00	112.50
50	1.40	5.00,	3.60			
				3.65	25.00	91.25
75	1.30	5.00	3.70			
					•	
100						
125						-

Natural ground		Difference of	Average of		
elevation; a	Final Elevation: b	elevation: c= b-a		Width: d	area: e= c*d

Section N° ZII-4

distance	a	b	С	c'	d	· e
		\				
-34	-1.30	5.00	6.30			
				6.25	9.00	56.25
-25	-1.20	5.00	6.20		1 1	
	1			6.05	25.00	151.25
0	-0.90	5.00	5.90			
·				5.75	25.00	143.75
25	-0.60	5.00	5.60			
				5.55	25.00	138.75
50	-0.50	5.00	5.50			
				4.55	25.00	113.75
75	1.40	5.00	3.60			
100						· · · · · · · · · · · · · · · · · · ·
						. ,
125						

Natural ground		Difference of	Average of		
elevation; a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≂ c'd

Section N° ZII-5

distance	а	b	C	c'	d	е
		· · · · · · · · · · · · · · · · · · ·				
·						
	·					
-19	-1.50	5.00	6.50			
1 .	<u></u>			6.35	19.00	120.65
0	-1.20	5.00	6.20			
: '				6.15	25.00	153.75
25	-1.10	5.00	6.10			
				5.85	25.00	146.25
50	-0.60	5.00	5.60			
				5.55	25.00	138.75
75	-0.50	5.00	5.50			
			:	4.55	25.00	113.75
100	1.40	5.00	3.60			
				3.50	25.00	87.50
125	1.60	5.00	3.40			
	10 mm (10 mm)			2.90	25.00	72.50
150	2.60	5.00	2.40			
				2.25	25.00	56.25
175	2.90	5.00	2.10		· · ·	
200						1 1
225						

AREA OF SECTION:

889.40 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b		elevation	Width: d	area: e≕ c*d

Section N° ZII-6

-1.60 -1.35	5.00	6.60	c'	d	8
	5.00	6.60		\	
	5.00	6.60		\	
	5.00	6.60		\	
	5.00	6.60			
	5.00	6.60			
-1.35					
-1.35			6.48	20.00	129.50
	5.00	6.35			
			6.58	25.00	164.38
-1.80	5.00	6,80			
0.05	<u>.</u>		6.23	25.00	155.63
-0.65	5,00	5.65			
0.40			5.53	25.00	138.13
-0.40	5.00	5.40			
0.20			5.35	25.00	133.75
-0.30	5.00	5.30	· · · · · · · · · · · · · · · · · · ·		
0.20			5.25	25.00	131.25
-0.20	5.00	5.20			
0.00	F 00		5.10	25.00	127.50
0.00	5.00	5.00	105		
0.10	E 00	100	4.95	25.00	123.75
0.10	5.00		4.05		
0.20	5.00		4.85	25.00	121.25
0.20	5.00	4.80	0.00		
260	5.00	2.40	3.60	25.00	90.00
2.00	5.00	2.40	1.00	10.00	·
5.00	5.00	0.00	1.20	10.00	12.00
		0.00			
	<u> </u>				
				<u> </u>	
	-1.80 -0.65 -0.40 -0.30 -0.20 0.00 0.10 0.20 2.60 5.00	-1.80 5.00 -0.65 5.00 -0.40 5.00 -0.30 5.00 -0.20 5.00 0.10 5.00 0.20 5.00 2.60 5.00	-1.80 5.00 6.80 -0.65 5.00 5.65 -0.40 5.00 5.40 -0.30 5.00 5.30 -0.20 5.00 5.20 0.00 5.00 5.00 0.10 5.00 4.90 0.20 5.00 4.80 2.60 5.00 2.40	-1.80 5.00 6.80 6.58 -1.80 5.00 6.80 6.23 -0.65 5.00 5.65 5.53 -0.40 5.00 5.40 5.35 -0.30 5.00 5.30 5.25 -0.20 5.00 5.20 5.10 0.00 5.00 5.00 4.95 0.10 5.00 4.90 4.85 0.20 5.00 4.80 3.60 2.60 5.00 5.00 0.00	-1.80 5.00 6.80 6.58 25.00 -0.65 5.00 5.65 5.53 25.00 -0.40 5.00 5.40 5.35 25.00 -0.30 5.00 5.30 5.25 25.00 -0.20 5.00 5.00 5.00 5.10 25.00 0.10 5.00 4.90 4.85 25.00 0.20 5.00 4.80 3.60 25.00 2.60 5.00 2.40 1.20 10.00 5.00 5.00 0.00

1,327.13 m²

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≕ c'd

Section N° ZII-7

distance	à	b	С	c'	d	6
· · · · · · · · · · · · · · · · · · ·						
6	-1.70	5.00	6.70			
- 05	150	F 00		6.60	19.00	125.40
25	-1.50	5.00	6.50	6.15	05.00	150 75
50	-0.80	5.00	5.80	6.15	25.00	153.75
	0.00	0.00	3.00	5.60	25.00	140.00
75	-0.40	5.00	5.40			170.00
				5.35	25.00	133.75
100	-0.30	5.00	5.30			
				5.20	25.00	130.00
125	-0.10	5.00	5.10		05.00	
150	0.00	5.00	5.00	5.05	25.00	126.25
130	0.00	3.00	5.00	5.00	25.00	125,00
175	0.00	5.00	5.00	3.00	20.00	123,00
				4.90	25.00	122.50
200	0.20	5.00	4.80			
				4.65	25.00	116.25
225	0.50	5.00	4.50			
250	0.00	F 00	0.40	3.30	25.00	82.50
250	2.90	5.00	2.10			
275						
300						

1,255.40 m²

Natural ground		Difference of	Average of		
elevation; a	Final Elevation: b	elevation: c= b-a	elevation	Width; d	area: e= c⁴d

Section N° ZII-8

distance	a	b	С	C'	d	е
		ļ				· ·
		· · · · · · · · · · · · · · · · · · ·				·
		-	 			
	 	<u> </u>	-			
20	-1.80	5.00	6.80			
				6.75	5.00	33.75
25	-1.70	5.00	6.70			00.70
				6.25	25.00	156.25
50	-0.80	5.00	5.80			
		<u>.</u>		5.60	25.00	140.00
75	-0.40	5.00	5.40			2.44
				5.30	25.00	132.50
100	-0.20	5.00	5.20	*.		
				5.15	25.00	128.75
125	-0.10	5.00	5.10			
150		F 00	 	5.05	25.00	126.25
100	0.00	5.00	5.00	4.05	05.00	
175	0.10	5.00	4.90	4,95	25.00	123.75
173	0.10	5.00	4.90	4.85	25.00	101.05
200	0.20	5.00	4.80	4,00	20.00	121.25
	0.20	3.00	7.00	4.65	25.00	116.25
225	0.50	5.00	4.50	7.00	23.00	110.20
		1	1100	3.75	25.00	93.75
250	2.00	5.00	3.00			30.70
				1.50	16.00	24.00
266	5.00	5.00	0.00			
			1			

1.196.50 m²

Natural ground		Difference of	Average of		
elevátion: a	Final Elevation: b	elevation: c= b-a	elevation	Width: d	area: e≔ c*d

Section N° ZII-9

distance	a	b	С	C'	d	е
				·		
					*.	
		 		<u> </u>		
						
			<u> </u>			
37	-1.70	5.00	6.70			
1 1 1 1				6.60	13.00	85.80
50	-1.50	5.00	6.50			00.00
				5.95	25.00	148.75
75	-0.40	5.00	5.40			
				5.30	25.00	132.50
100	-0.20	5.00	5.20		s. 1	
125				5.10	25.00	127.50
125	0.00	5.00	5.00			·
150	0.00	5.00	5.00	5.00	25.00	125.00
130	0.00	5.00	5.00	4.90	05.00	400.50
175	0.20	5.00	4.80	4.90	25.00	122.50
		3.00	7.00	4.60	25.00	115.00
200	0.60	5.00	4.40	7.00	20.00	113.00
	, i .	* .		4.05	25.00	101.25
225	1,30	5.00	3.70			
				2.80	25.00	70.00
250	3.10	5.00	1.90			
				1.90	25.00	47.50
275	3.10	5.00	1.90			
300		F 00	0.50	1.20	25.00	30.00
300	4.50	5.00	0.50			
325		-				
		 	<u> </u>		 	
350	·				-	
375		İ				

1,105.80 m²

	Natural ground		Difference of	Average of			ĺ
i	elevation: a	Final Elevation: b	elevation; c= b-a	elevation	Width: d	area: e= c*d	i

Section N° ZII-10

distance	a	b	C	c'	d	е
				<u> </u>		
	·	- · · · · · · · · · · · · · · · · · · ·				
50	-1.70	5.00	6.70		.4	
				6.10	25.00	152.50
75	-0.50	5.00	5.50		,	and a large
		<u> </u>	<u> </u>	5.35	25.00	133.75
100	-0.20	5.00	5.20			
		<u> </u>		4.85	25.00	121.25
125	0.50	5.00	4.50		1	
				3.25	25.00	81.25
150	3.00	5.00	2.00			
			<u> </u>	1.85	25.00	46.25
175	3.30	5.00	1.70			
				2.20	25.00	55.00
200	2.30	5.00	2.70			· · · · · · · · · · · · · · · · · · ·
			ļ	2.70	25.00	67.50
225	2.30	5.00	2.70			
- 050	0.40			2.30	25.00	57.50
250	3.10	5.00	1.90			
275	0.40	F 00	· · · · · · · · · · · · · · · · · · ·	1.90	25.00	47.50
2/5	3.10	5.00	1.90	1.05		
300	2.00	F 00	0.00	1.95	25.00	48.75
300	3.00	5.00	2.00	4.50	05.00	<u> </u>
325	4.00	5.00	1.00	1.50	25.00	37.50
323	4.00	0,00	1.00	0.75	05.00	
350	4.50	5.00	0.50	0.75	25.00	18.75
	4.00	5.00	0.50	1005	05.00	<u> </u>
375	5.00	5.00	0.00	0.25	25.00	6.25
3/5	5.00	ວ.ບບ	0.00		7	

Natural ground		Difference of	Average of		
elevation: a	Final Elevation: b	elevation: c≂ b-a	elevation	Width: đ	area: e= c*d

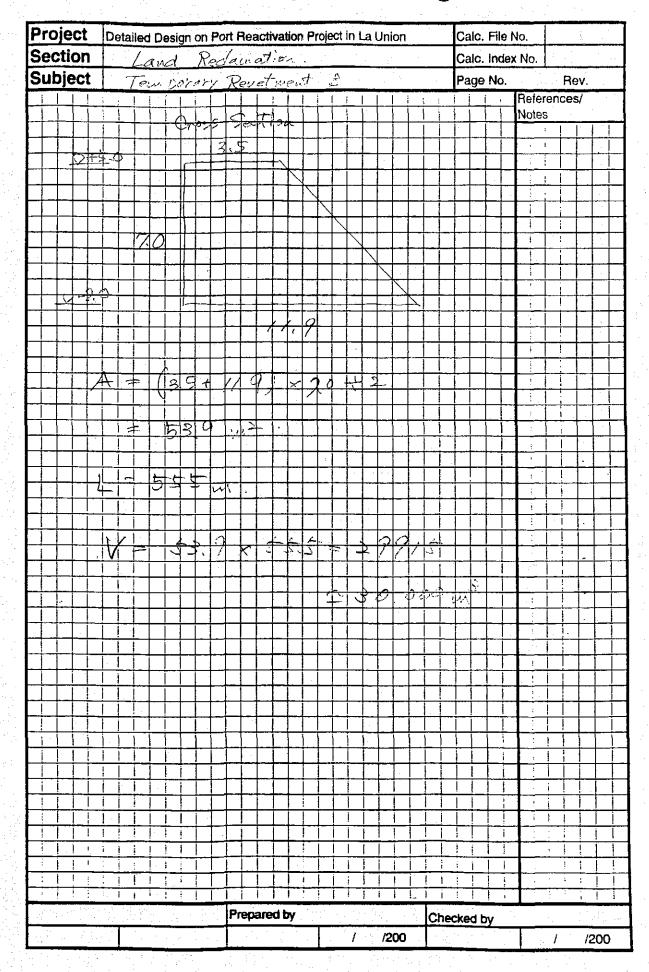
Section N° ZII-11

distance	a	b	С	c'	d	е
	· · · · · · · · · · · · · · · · · · ·				-	
					 	
					 	
				<u> </u>		
			<u> </u>		ļ	
71	-1.40	5.00	6.40		l	
				6.35	4.00	25.40
75	-1.30	5.00	6.30			
				5.85	25.00	146,25
100	-0.40	5.00	5.40			
125	0.00	F 00		4.05	25.00	101.25
125	2.30	5.00	2.70	1.35	25.00	33.75
150	5.00	5.00	0.00	1.33	25.00	33.73
	0.00	0.00	0.00	0.00	25.00	0.00
175	5.00	5.00	0.00			
				0.00	25.00	0.00
200	5.00	5.00	0.00			· • • • · · · · · · · · · · · · · · · ·
005	5.00	7.00		0.00	25.00	0.00
225	5.00	5.00	0.00	0.00	05.00	0.00
250	5.00	5.00	0.00	0.00	25.00	0.00
	0.00	3.00	0.00	0.00	25.00	0.00
275	5.00	5.00	0.00	0.00	20.00	0.00
				0.00	25.00	0.00
300	5.00	5.00	0.00			
-005	4.55		1 2 2	0.50	25.00	12.50
325	4.00	5.00	1.00	4.00	05.00	05.00
350	4.00	5.00	1.00	1.00	25.00	25.00
	-7.50	3.00	1.00	0.75	25.00	18.75
375	4.50	5.00	0.50			75.70
				0.25	25.00	6.25
400	5.00	5.00	0.00			
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April 2, 2002

NATURAL GROUND ELEVATIONS AREA OF RECLAMATION ZONE II (ZONE B)

SECTION Nº			400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0	-25	-50	-75
ZII-1								·					 			4.00	2.60	1.20	2.10	5	5	-1
ZII-2	1	.,													5.00	2.00	-0.20	0.00	-0.20	-0.6	-1	-1.3
ZII-3																1.30	1.40	-0.40	-0.60	-1.1	-1.2	-1.8
Z11-4																1.40	-0.50	-0.60	-0.90	-1.2	-1.6	-2.5
ZII-5												2.90	2.60	1.60	1.40	-0.50	-0.60	-1.10	-1.20	-1.8	-2.3	-2.9
ZII-6				.,			.=	····	5.00	2.60	0.20	0.10	0.00	-0.20	-0.30	-0.40	-0.65	-1.80	-1.35	-2.1	-2.6	-3.2
ZII-7					 				2.90	0.50	0.20	0.00	0.00	-0.10	-0.30	-0.40	-0.80	-1.50	-1.80	-2.3	-2.8	-3.4
ZII-8		,	tara mana-mata					5.00	2.00	0.50	0.20	0.10	0.00	-0.10	-0.20	-0.40	-0.80	-1.70	-2.20	-2.6	3.2	-3.5
ZII-9					 		4.50	3.10	3.10	1.30	0.60	0.20	0.00	0.00	-0.20	-0.40	-1.50	-1.90	-2.50	-2.9	-3.2	-3.4
ZII-10			,	5.00	4.50	4.00	3.00	3.10	3.10	2.30	2.30	3.30	3.00	0.50	-0.20	-0.50	-1.70	-2.20	-2.60	-3.1	-3.3	-3.6
ZII-11			5.00	4.50	4.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	2.30	-0.40	-1.30	-2.70	-2.90	-3.20	-3.4	- 3.6	-4.1
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(E) NIPPON KOEI CO., LTD.

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