	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Coping Concrete of Coisson	Pay Item No. (BOQ)	2B-0904
Quantity item	Form	Unit	mz.

Form of Coping Concrete was computed for container borth.

References, Calculation Base and Revisions

Fichernies: Tender Drawings:

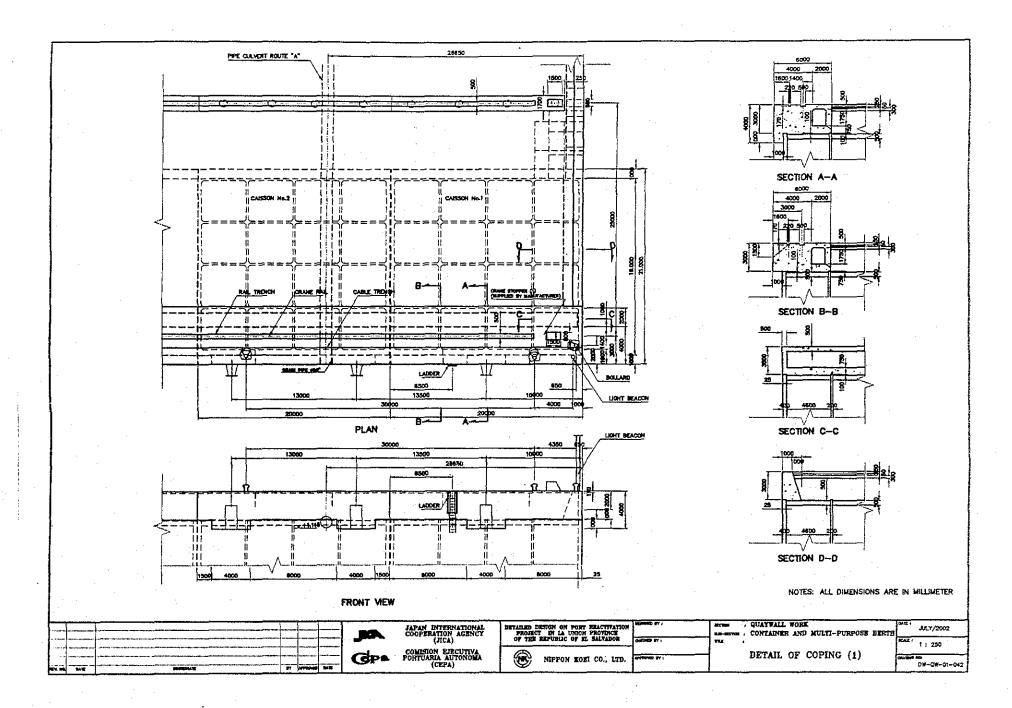
DW-QW-01-042 Detail of Coping (1)

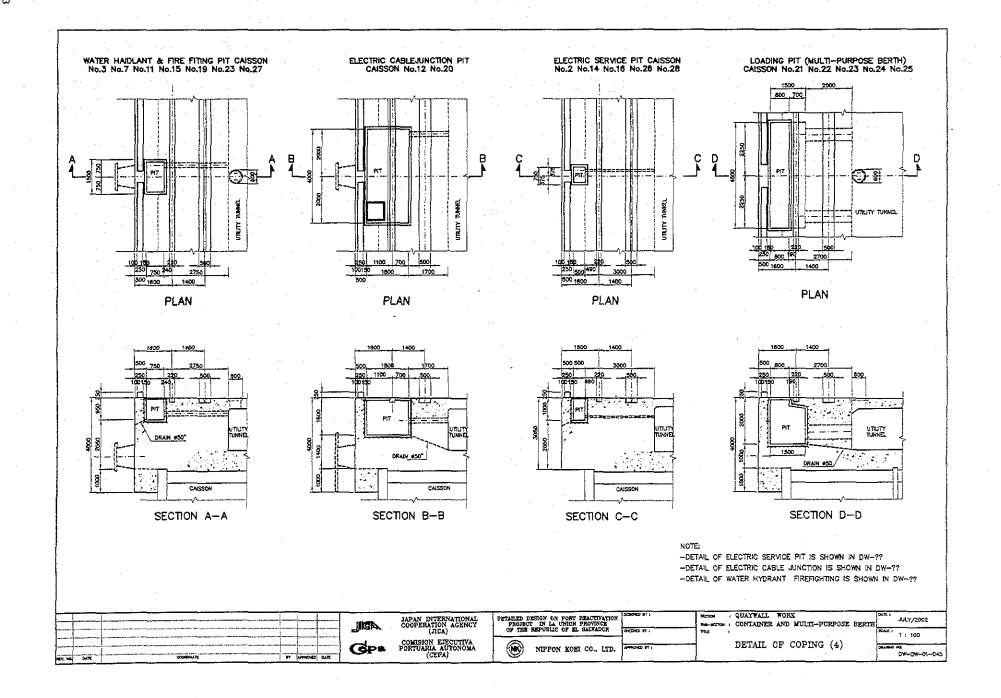
DW-QW-01-045 Detail of Coping (4)

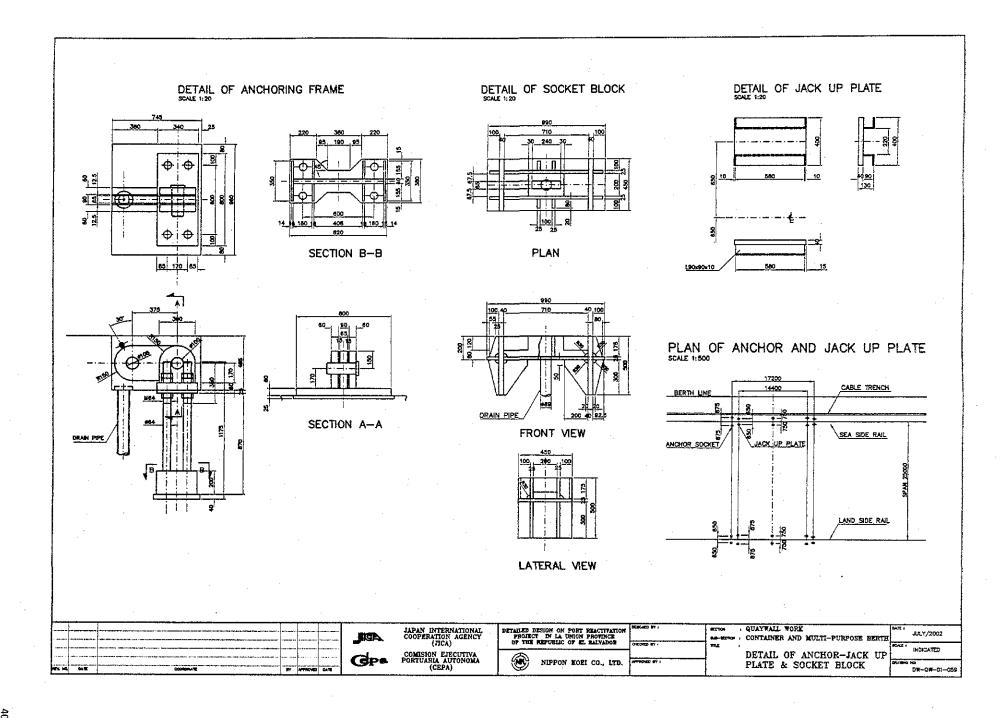
DW-QW-01-053 Detail of Anchor-Jockup Plate

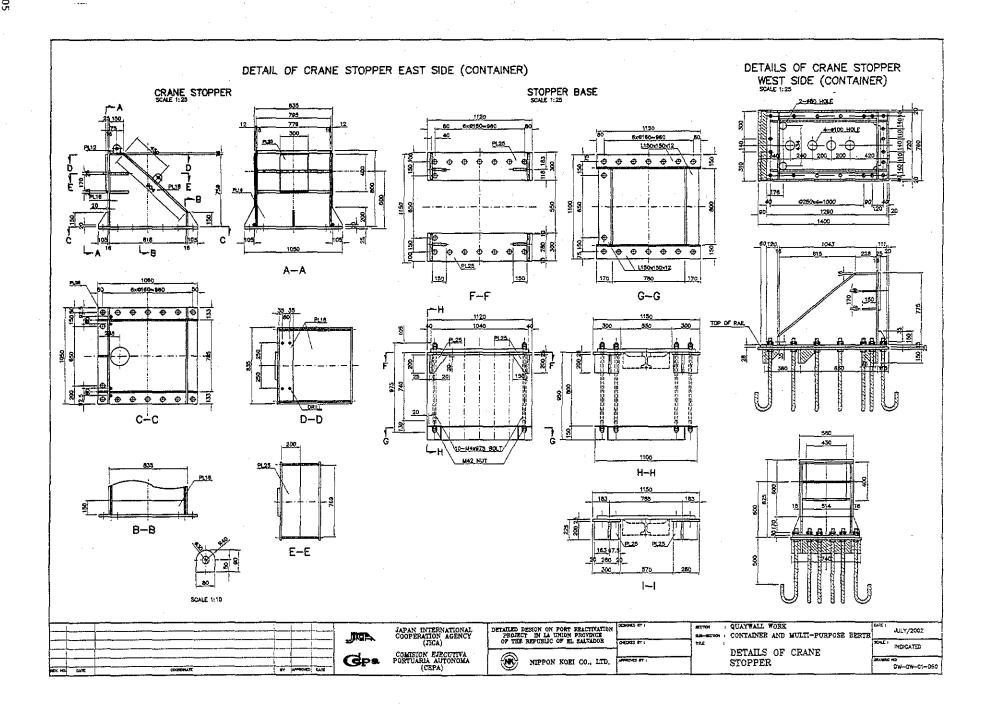
DW-QW-01-060 Detail of Franc End Stopper

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Container	No.1	270.65		2.9		274
Berth	No.2	262				262
	No.3	256				256
	No.4	262				262
	No.5	256				256
	No.6	262				262
	No.7	256				256
	No.8	262				262
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	No.11	256				256
	No.12	262			··-	262
	No.13	256		,		256
	No.14	262	9.6			271.6
	No.15	256	9,6			265.6
	No.16	262	9.6			271.6
	No.17	256	9.6	2.9		268.5
	End Block	87.7				87.7
	Total					4,550 m3
Multi-purpose	No.18	396				396
Berth	No.19	390				390
	No.20	396			· · · · · · · · · · · · · · · · · · ·	396
	No.21	390				390
•	No.22	396			26.2	422.2
	No.23	390		· · · · · · · · · · · · · · · · · · ·	26.2	416.2
	No.24	396			26.2	422.2
	No.25	390				390
	No.26	396				396
	No.27	390	. 9.6			399.6
	No.28	423.6	9.6	2.9		436.1
	End Block	68.9				68.9
	Total			-		4,530 m3

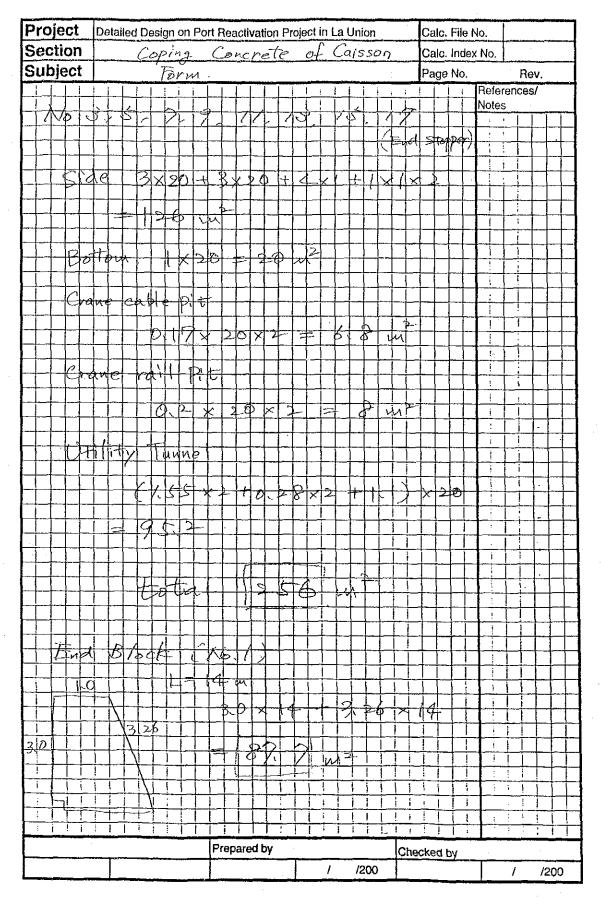
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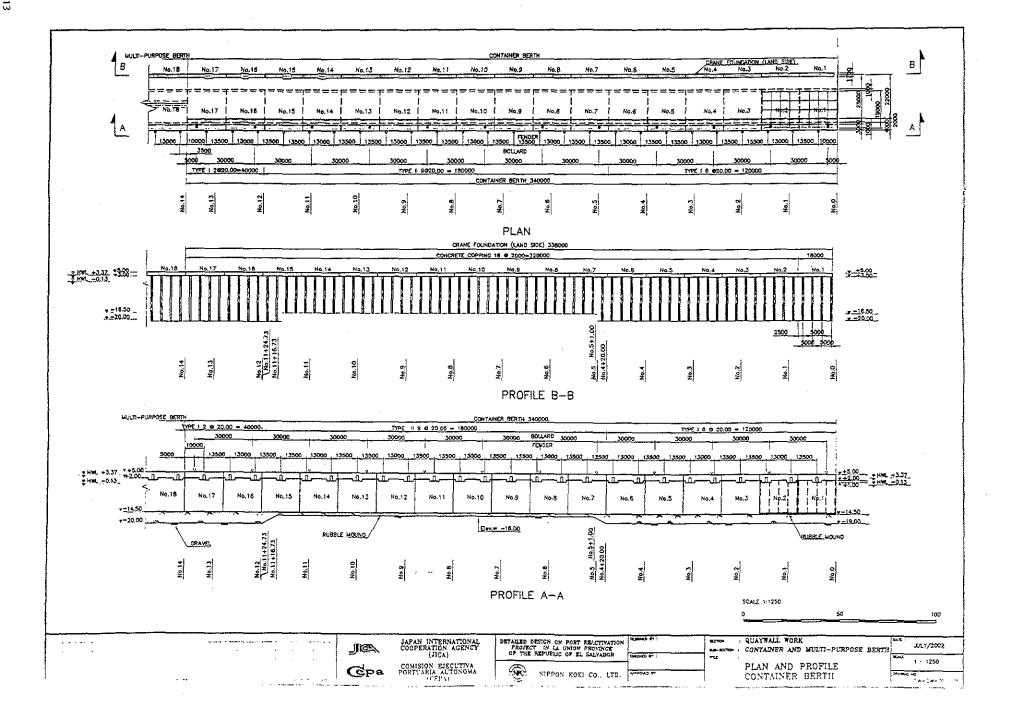


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Reference	es: Tindic V-QW-01-C	Drowings: 101 Plan and Container	j3eilh		ewed	Superseded
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	COPING CONCRETE OF CAISSON	Pay Item No. (BOQ)	2B-0306
Quantity Item	Concrete for Curb	Unit	м ^з .

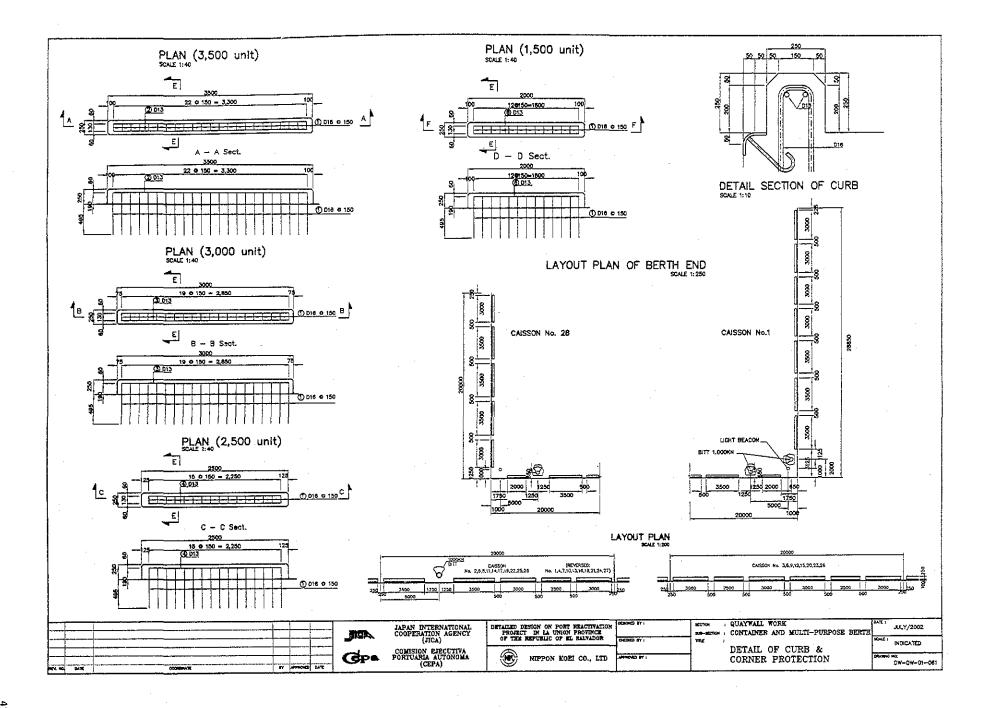
Lengths of curb are 4 types (3.5 m, 3.0 m, 2.5 m, 2.0 m).
Regarding the arrangement, see the attached drawing.

Calculation was computed by using Excel.

References, Calculation Base and Revisions

References: Tender Prowings: DW-QW-01-061 Detail of Out & Corner Protection

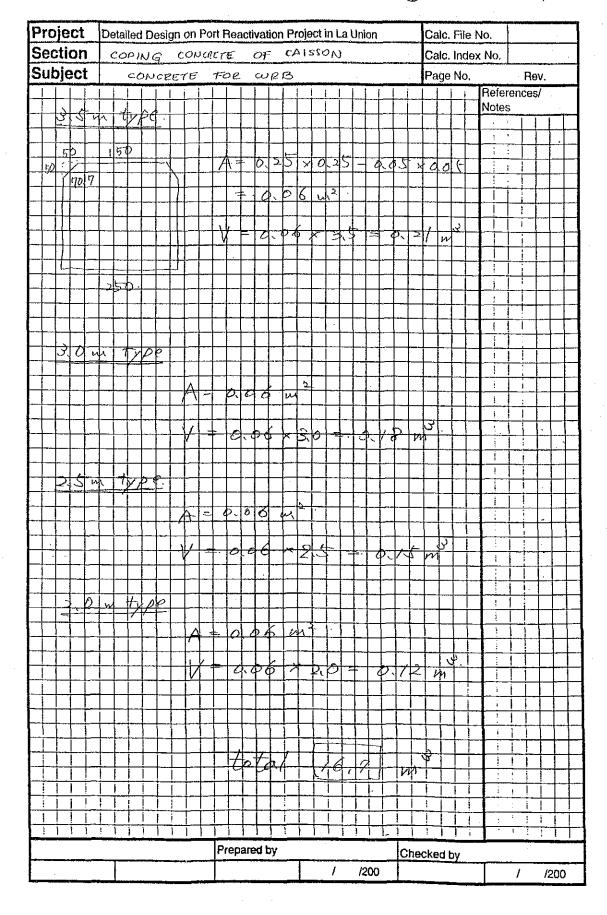
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Curb	on the	Caisson					•	
		3.5m	3.0m	2.5m	2.0m	Concrete (m3)	Form (m2)	Re-Bar (kg)
No	1	4	6	1	1	2.19	20.92	633.1
	2	2	2	1		0.93	8.87	268
	3		3	2		0.84	7.96	241.5
	4	2	2	1		0.93	8.87	268
	5	2 2	2	i		0.93	8.87	268
	6		3	2		0.84	7.96	241.5
	7 .	2	2	1		0.93	8.87	268
	8	2	2	1		0.93	8.87	268
	9		2 3	2		0.84	7.96	241.5
	10	2	2	1		0.93	8.87	268
	11	2	2	i		0.93	8.87	268
	12		3	2		0.84	7.96	241.5
	13	2	2	1		0.93	8,87	268
	14	2	2 2 3	1		0.93	8.87	268
	15		3	2		0.84	7.96	241.5
	16	2	2	1		0.93	8.87	268
	17	2	2	1		0.93	8.87	268
	Total					16.7	159.0	4790.0
	4.6	0						0.00
	18	2	2	1		0.93	8.87	268
	19	2	2	1		0.93	8.87	268
	20		3	2		0.84	7.96	241.5
	21	2	2	1		0.93	8.87	268
	22	2	2	1		0.93	8.87	268
	23	_	3	2		0.84	7.96	241.5
	24	2	2	1	•	0.93	8.87	268
	25	2	2	1		0.93	8.87	268
	26	_	3	2		0.84	7.96	241.5
	27	2	2 4	1		0.93	8.87	268
	28	. 4	4	1	1	1.83	17.52	528.1
	Total					10.9	104.0	3130.0

٠,	Concrete	Form	Re~Bar
	m3	m2	kg
L=3.5m	0.21	2.02	60.5
L=3.0m	0.18	1.7	52.5
L=2.5m	0.15	1.43	42.0
L=2.0m	0.12	1.21	34.1

(I) NIPPON KOEI CO, LTD.



	QUANTITY CALCULATION COVER SHEET										
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	COPING CONCRETE OF CAISSON	Pay Item No. (BOQ)	28 -0907								
Quantity Item	Form for Carb	Unit	M ≥ ·								

Lengths of curb are 4 types (2,5m, 3,0m, 2,5m, 2,0m). Calculation was computed by using Excel.

Regarding numbers of each type, see the attached

Summary.

References, Calculation Base and Revisions

Returnces: Tunder Drawings:

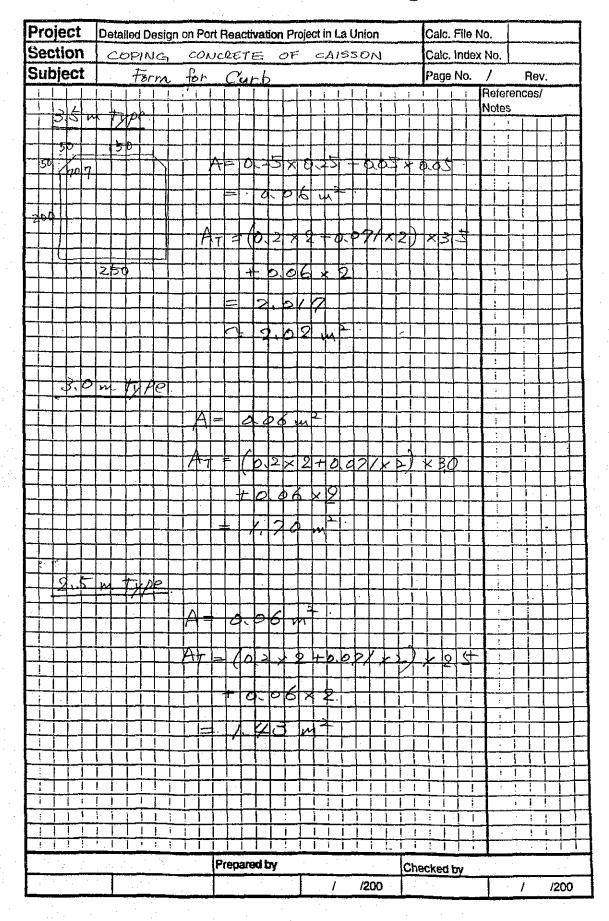
DVJ-QW-01-061 Detail of Curb & Corner Protection

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Curt	on the	Caisson						
	•	3.5m	3.0m	2.5m	2.0m	Concrete (m3)		Re~Bar (kg)
No	1 -	4	6	1	1	2.19	20.92	633.1
	2	2	2	1		0.93	8.87	268
	3		3	. 2		0.84	7.96	241.5
	4	2	2	1		0.93	8.87	268
	5	2		1		0.93	8.87	268
	. 6		2 3 2	2	*	0.84	7.96	241.5
	7	2	2	1		0.93	8.87	268
	8	2	2	1		0.93	8.87	268
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	20		3 -	2		0.84	7.96	241.5
	21	2	2	1		0.93	8.87	268
	22	. 2	. 2	. 1		0.93	8.87	268
	23	. <u> </u>	3	2		0.84	7.96	241.5
•	24	2	2	1	•	0.93	8.87	268
	25	2	2	1		0.93	8.87	268
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	27	2	2	1		0.93	8.87	268
	28	4	4	i	1	1.83	17.52	528.1
	Total	т.			•	10.9	104.0	3130.0
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	Concrete	Form	Re-Bar
	m3	m2	kg
L=3.5m	0.21	2.02	60.5
L=3.0m	0.18	1.7	52.5
L=2.5m	0.15	1.43	42.0
L=2.0m	0.12	1.21	34.1



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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	COPING CONCRETE OF CAISSON	Pay Item No. (BOQ)	2B-0908								
Quantity Item	Reinforcement for Curb	Unit	K3 '								

Lengths of curb are 4 types (3.5m, 3.0m, 2.5m, 2.0m). Calculation was computed by using Exocel.

Regarding numbers of each type, see attached summary.

References, Calculation Base and Revisions

Reterences: Tender Drawings:

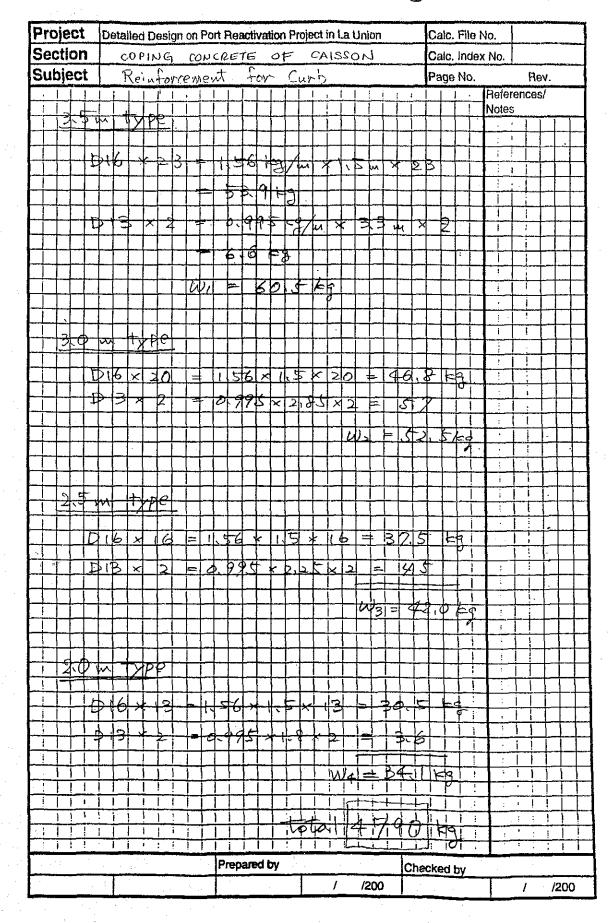
DIN-CON-01-001 Debit of ont of Corner Protection

(Some as Concrete for Curb)

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Curb o	n the	Caisson							
		3.5m	3.0m	2,5m	2.0m	•	Concrete (m3)	Form (m2)	Re-Bar (kg)
No	1 :	4	6	1	1 -		2.19	20.92	633.1
	2	2	2	1 .			0.93	8.87	268
	3		3	2			0.84	7.96	241.5
	4	2	2	. 1			0.93	8.87	268
	5	2	2	1			0.93	8.87	268
	5 6 7		- 3	2			0.84	7.96	241.5
		2	2	1			0.93	8.87	268
	8	2	2 2	1			0.93	8.87	268
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1	10	2	2	1			0.93	8.87	268
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	12		3	2	* *		0.84	7.96	241.5
	13	2	2	1			0.93	8.87	268
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To	otal						16.7	159.0	4790.0
	18	2 2	2 2	1			0.93	8.87	268
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	20		. 3	- 2			0.84	7.96	241.5
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	23		3	· 2 ·			0.84	7.96	241.5
	24	2	2 2	1			0.93	8.87	268
	25	2	2	1 .			0.93	8.87	268
	26	• •	3	2			0.84	7.96	241.5
	27	2	2	†			0.93	8.87	268
	28	4	4	1	1 -		1.83	17.52	528.1
To	otal						10.9	104.0	3130.0

	Concrete	Form	Re-Bar
	m3	m2	kg
L=3.5m	0.21	2.02	60.5
L=3.0m	0.18	1.7	52.5
L=2.5m	0.15	1.43	42.0
l=2.0m	0.12	1 21	34 1



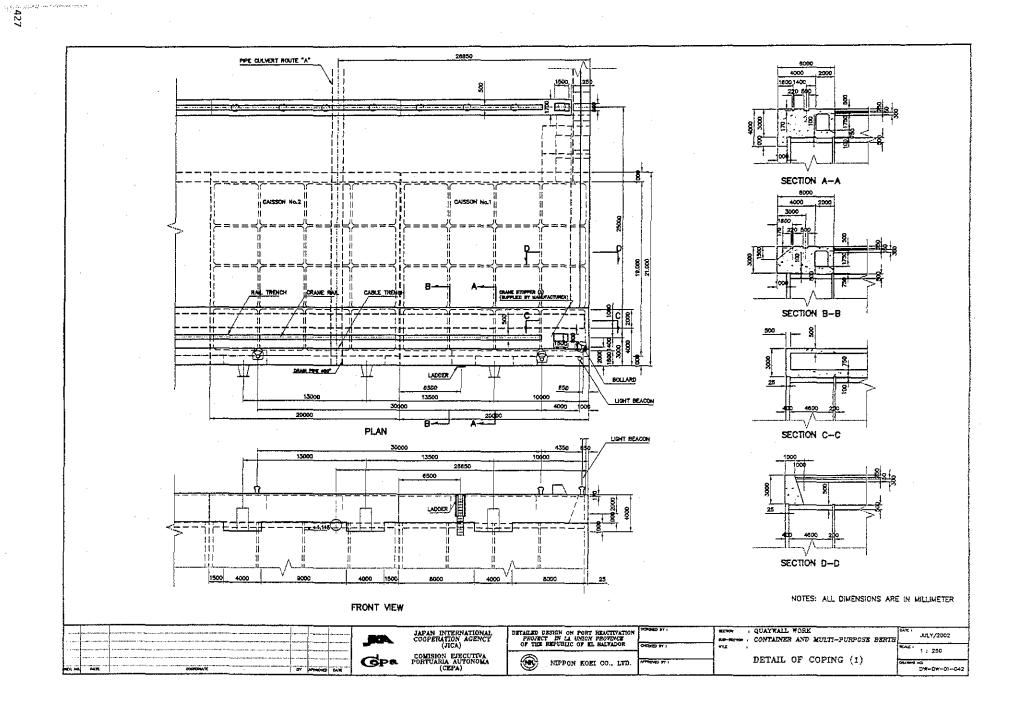
	QUANTITY CALCULATION COVER SHEET											
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001									
Work Section Title	COPING CONCRETE OF CAISSON	Pay Item No. (BOQ)	28-0909									
Quantity Item	DRAIN PIPE	Unit	т									

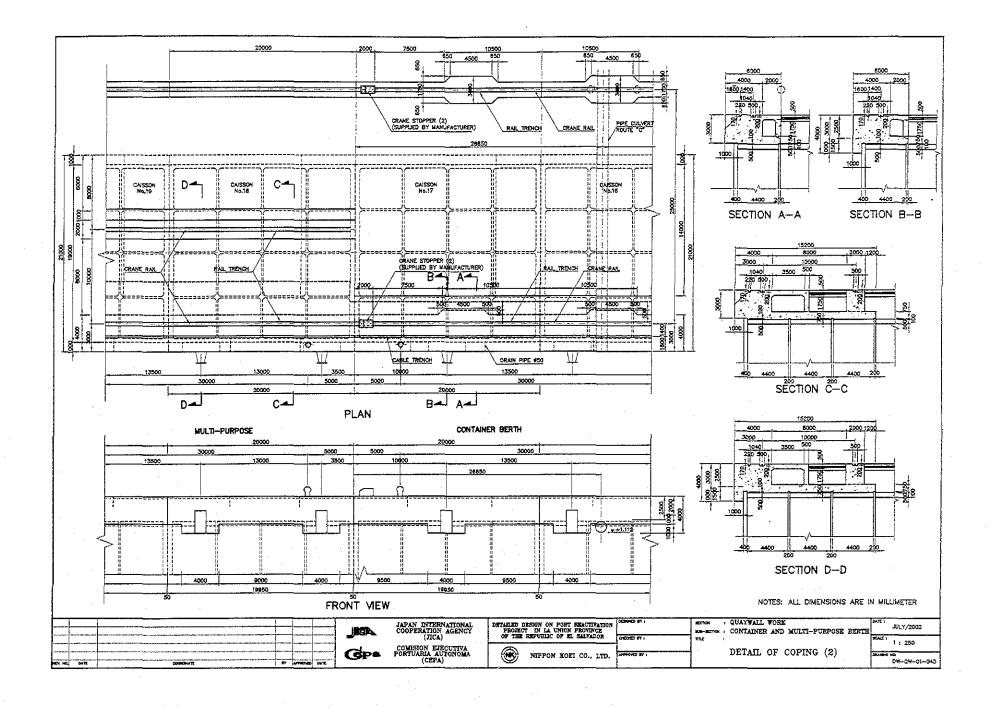
Copoing drain pipe was computed multiplying the length of cope by the number of pipe contained in one easisson and multiplied by the total of easissons in Container Belth, including water hard-lant, electric cobbe junction and roading pit.

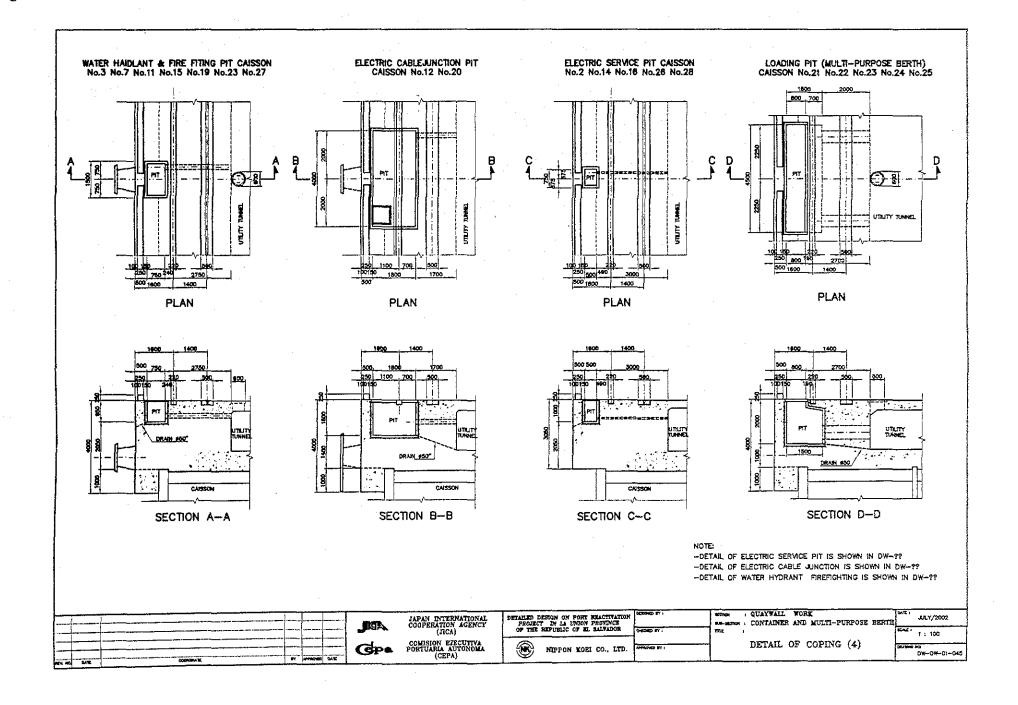
References, Calculation Base and Revisions

Modernce: Tinder Drawings:

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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	Apron Concrete pavement	Pay Item No. (BOQ)	213-1001
Quantity Item	Concrete	Unit	™² ·

Calculation Procedure Applied

Volume of concrete for Apron concrete pavement was computed by multiplying apron concrete pavement area by thickness.

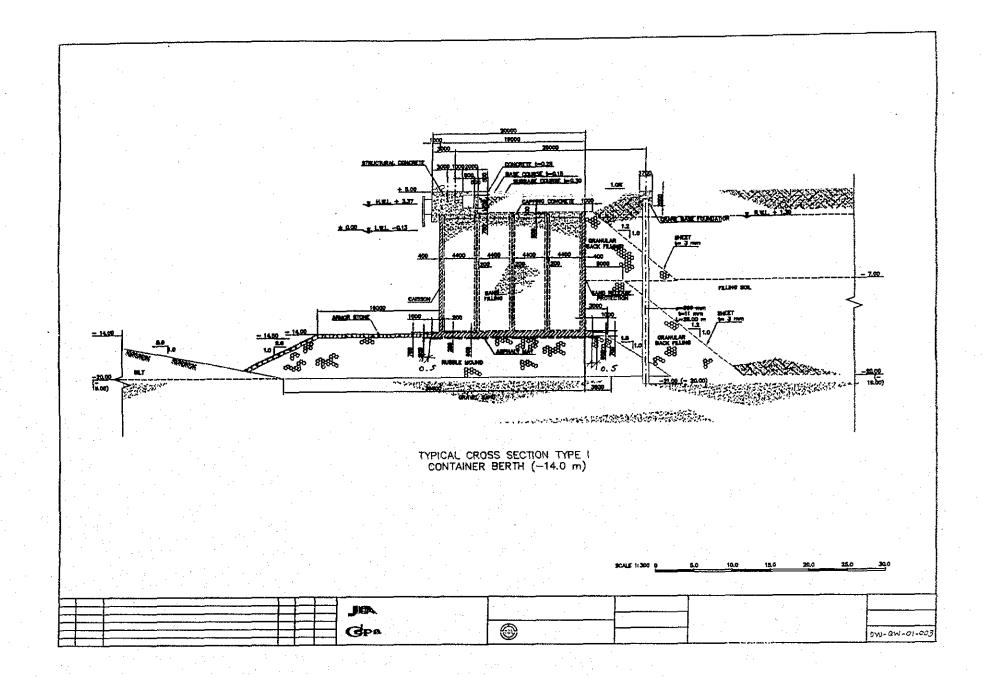
References, Calculation Base and Revisions

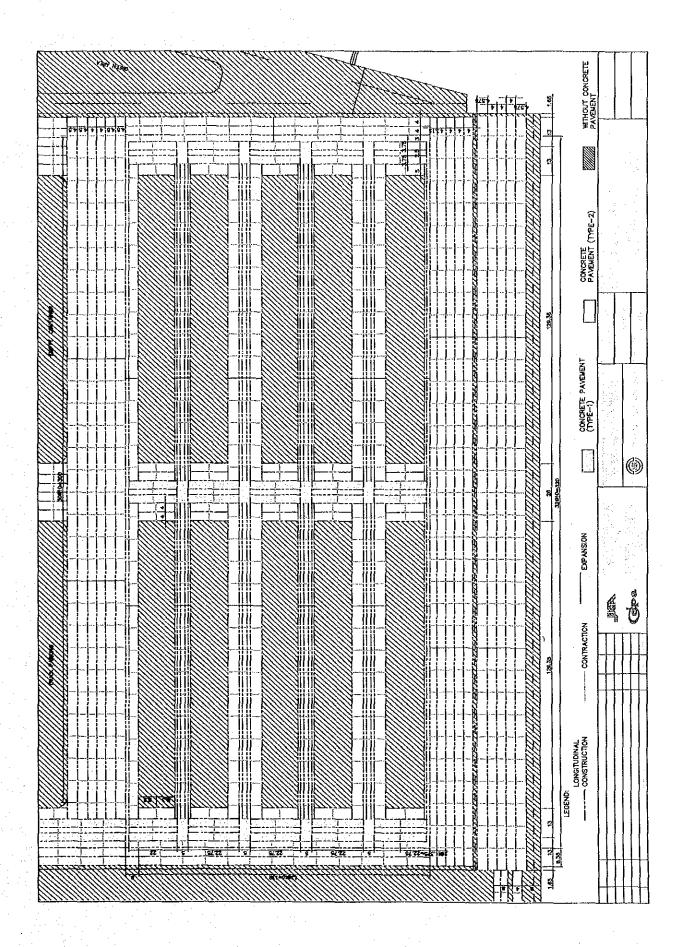
References: Tender Drowings:

DW-QW-01-003 Typical Cross Section Type I

DW-PV-01 006 Joint Arrangement of Concake Povement (2)

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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	Apron Concrete Pavement	Pay Item No. (BOQ)	2B-1002
Quantity Item	Base Concrete.	Unit	м ³ .

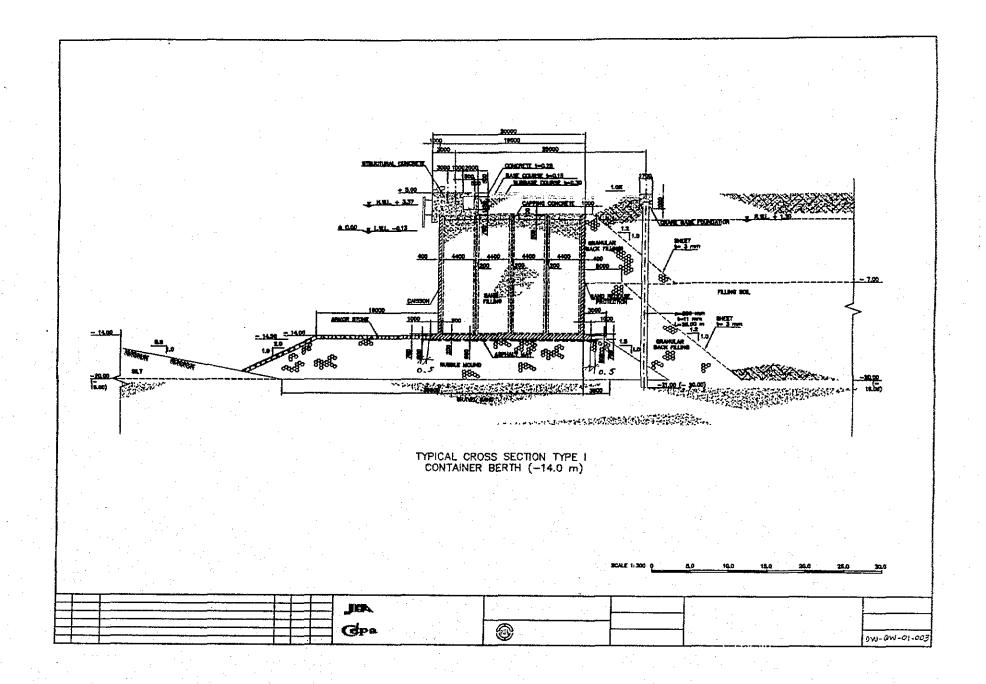
Volume of base concrete was computed by multiplying apron concrete pavement by thickness.

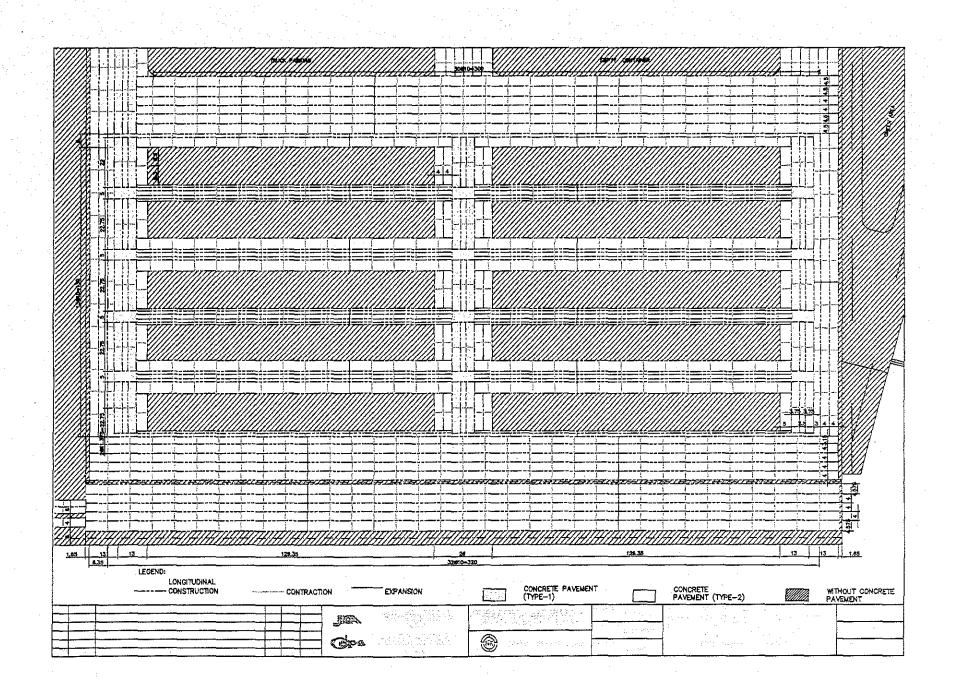
References, Calculation Base and Revisions

References: Tender Drawings:

DW-QW-01-003 Typical Cross Section Type I DW-DV-01-006 Joint Amongement of Concrete Povement (2)

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Apron Concrete Pavement	Pay Item No. (BOQ)	213-1003
Quantity Item	Sub-Base Concrete	Unit	M_3 .

Calculation Procedure Applied

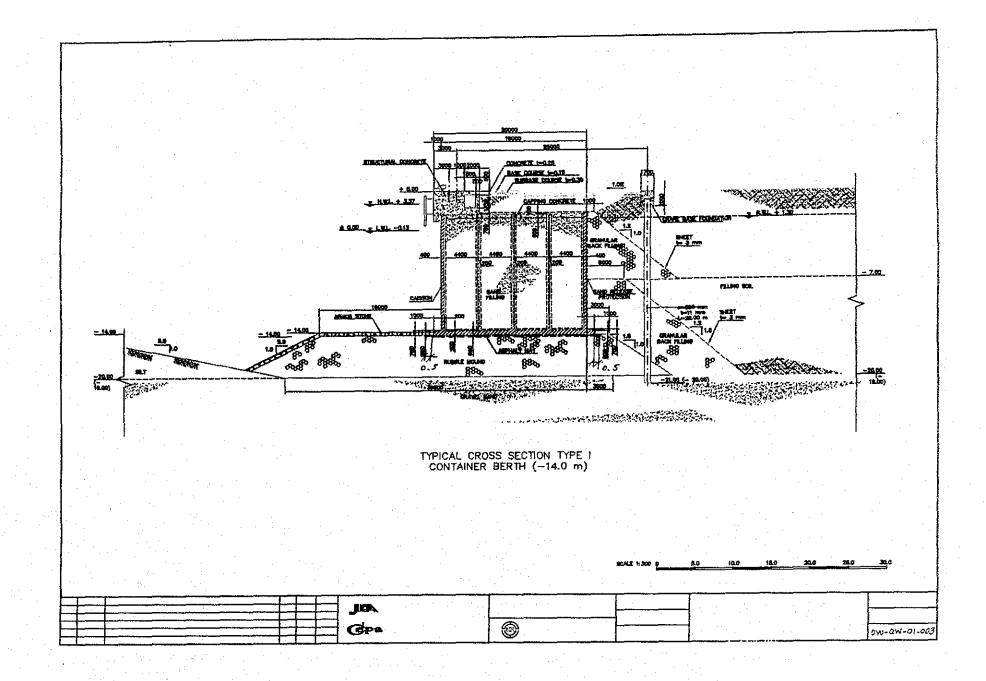
Volume of sub-base concrete was computed by multiplying apron concrete pavement area by thickness.

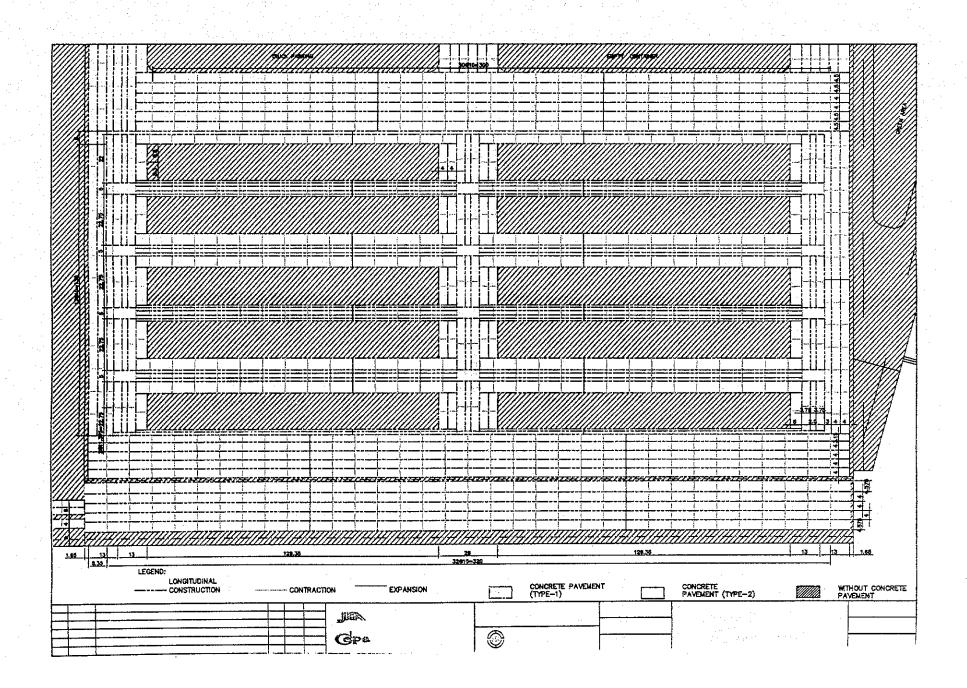
References. Calculation Base and Revisions

References. Tender Drowings:

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Apron Concrete Pavement	Pay Item No. (BOQ)	28-1004
Quantity Item	Prime Coating	Unit	m²

Calculation Procedure Applied

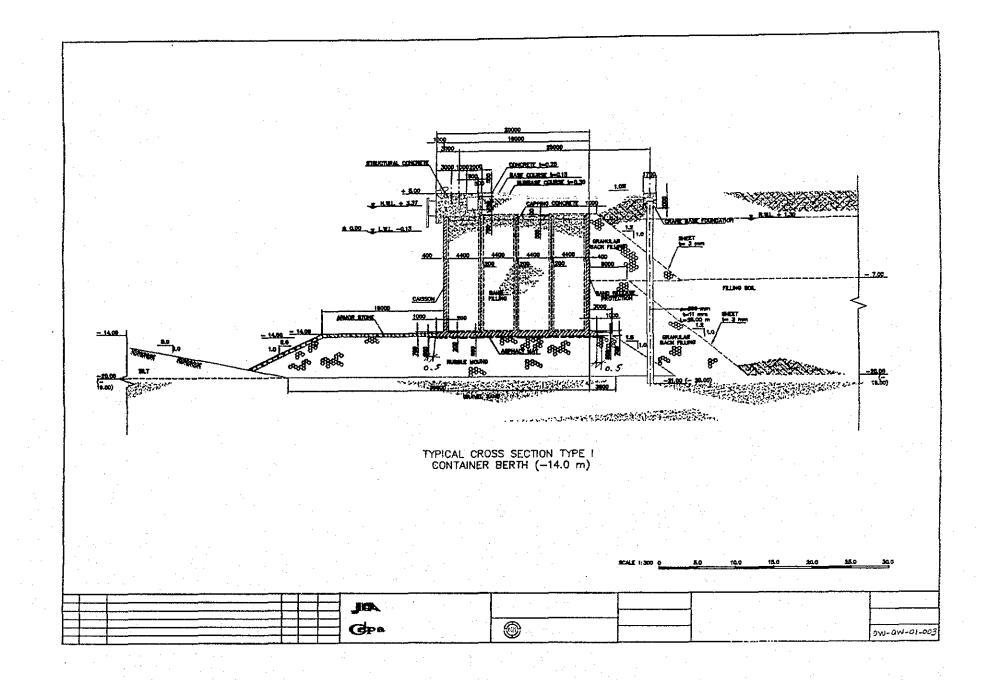
Area of prime coating was computed. This coating will cover all area of apron concrete pavement.

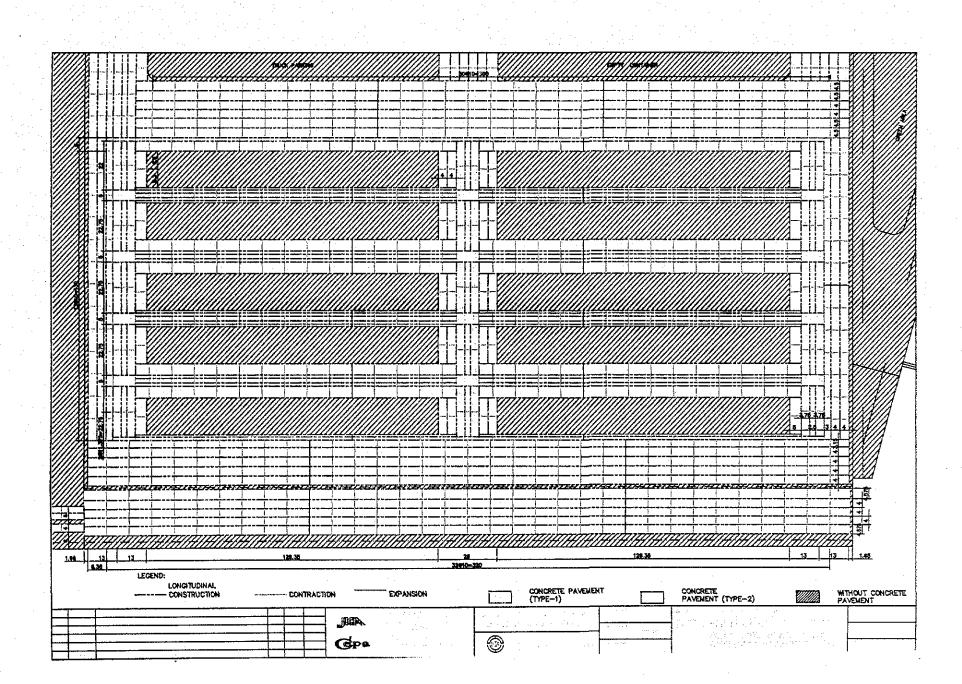
References, Calculation Base and Revisions

References: Tender Drawings:

DW-QW-01-003 Typical Cross Section Type I DW-PV-01-006 Toint Amongument of Converte Povement (2)

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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	APEON CONCRETE PAVEHENT	Pay Item No. (BOQ)	20-1005
Quantity Item	REINFORCCHENT AND TOINT BAR	Unit	Kq

Calculation Procedure Applied

Reinforcement and joint bor was computed for container approx povement.

Reinforcement length was computed summarizing all distances of the minforcement.

References, Calculation Base and Revisions

Returnes: Tender Drawings:

DW-PV-01-004 Toint Arrangement of Converte Povement (2)

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