

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE A)	Pay Item No. (BOQ)	2G-070301
Quantity Item	FORM FOR TYPE A	Unit	m ²

Calculation Procedure Applied

Form area was computed using geometric formulas.
Area was computed with zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
DW - PV - 01 - 004 Details of Container Stacking Plate
(Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	26 June 2002		Mr. Inoma		Mr. Ardo		
1								
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Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE A)	Calc. Index No.	
Subject	FORM FOR TYPE A	Page No.	Rev.
			References/Notes
$A = [(2.20m)(2.00m) + (2.20m)(1.00m)](2) + (1m)(2m) = 3,200 m^2$			
No. of concrete plate = 1070			
$A_T = (3,200 m^2)(1070) = 3,424 m^2 \approx 3,430 m^2$			$A = 3,430 m^2$
Prepared by		Checked by	
Kaila G.		26 June 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project In La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE A)	Pay Item No. (BOQ)	2G-070302
Quantity Item	RE-BAR FOR TYPE A	Unit	Kg

Calculation Procedure Applied

Re-Bar length was computed summarizing the distances of the different types of diameter.

References, Calculation Base and Revisions

References: Tender Drawings:
DW - PV - 01 - 004 Details of Container Stacking Yard.
(Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	26 June 2002		Mr. Inuma		Mr. Ando		
1	KA							
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Project		Detailed Design on Port Reactivation Project in La Union					Calc. File No.		
Section		Concrete Stacking Plate (Type A)					Calc. Index No.		
Subject		Re-Bar For Type-A					Page No.		Rev.
								References/ Notes	
	No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks		
	Type-A								
	A1	D13	1.90	14	1.8905	26.47			
	A2	D13	2.10	15	2.0895	31.34			
					total/block	57.81	≈ 57.90 kg		
<p>No Stacking Plate = 1070</p> <p>$M_T = (57.90 \text{ kg}) (1070) = 61,953 \text{ kg} \approx 62,000 \text{ kg}$ $W = 62,000 \text{ kg}$</p>									
					Prepared by		Checked by		
					Kailo G.		26 June 2002		
							1 / 200		

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE A)	Pay Item No. (BOQ)	EG-070303
Quantity Item	CONCRETE FOR TYPE A	Unit	m ³

Calculation Procedure Applied

Concrete area was computed using geometric formulas.
 Volume was computed multiplying the area to the thickness of the stacking plate.
 Volume was computed with two decimal for section area and 400 decimal for total.

References, Calculation Base and Revisions

References : Tender Drawings =
 DW - DV - 00 - 004 Details of Container Stacking Plate
 (Some as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	26 June 2022		Mr. Jaoma		Mr. Ando		
1	<i>[Signature]</i>							
2								
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Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE A)	Calc. Index No.	
Subject	CONCRETE TORQ TYPE A	Page No.	Rev.
			References/ Notes
$A = (1.00 \text{ m}) (2.00 \text{ m}) (0.20 \text{ m}) = 0.40 \text{ m}^3$			
No. stacking plates = 1070			
$V = (0.40 \text{ m}^3) (1,070) = 428 \text{ m}^3 \approx 430 \text{ m}^3$			$V = 430 \text{ m}^3$
Prepared by		Checked by	
Korla G.		26 / June / 200 2	
		/ / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE B)	Pay Item No. (BOQ)	26-0702.03
Quantity Item	BASE COURSE	Unit	m ³

Calculation Procedure Applied

Pavement area was computed using geometric formulas.
Pavement volume was computed multiplying the area to the thickness of the course.

Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

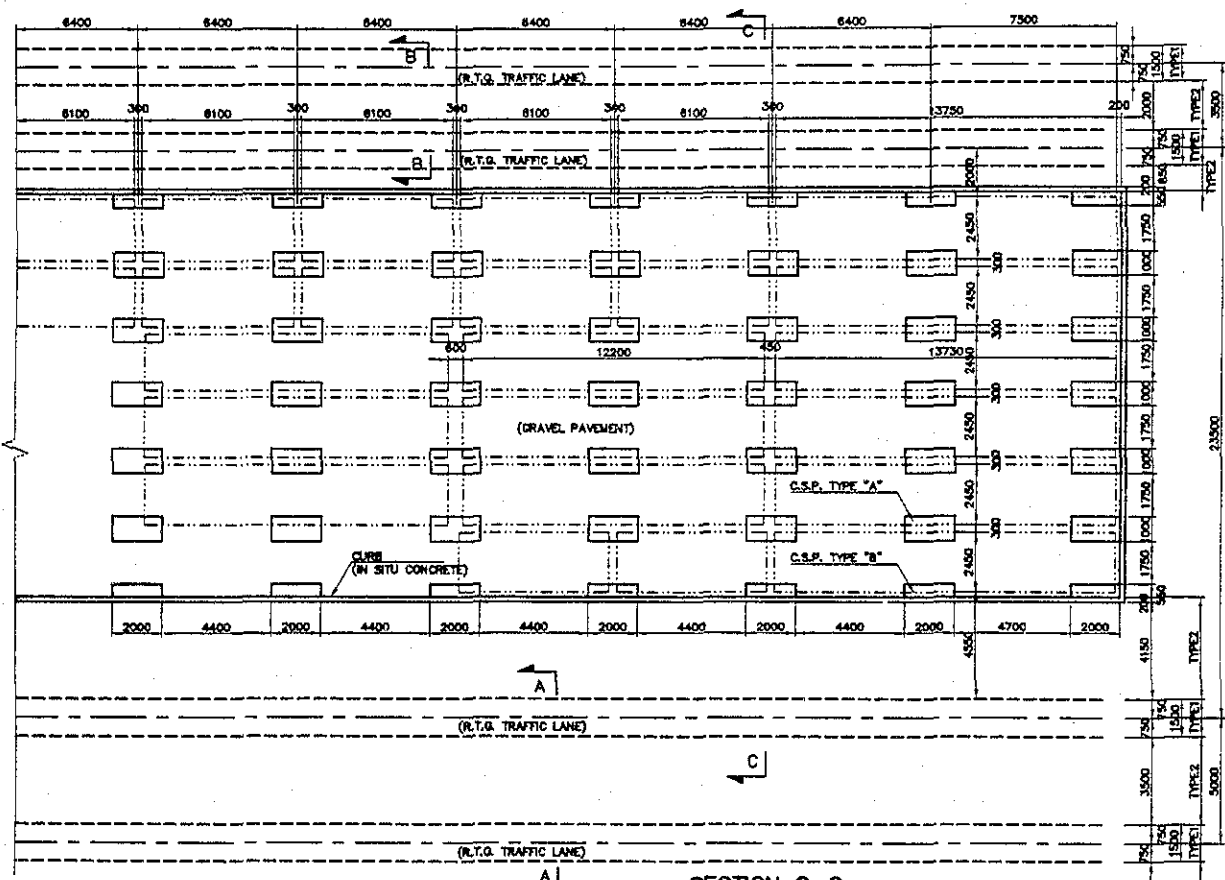
References = Tender Drawings:

DW - PV - 01 - 002 location of Container stacking plate for Dry Container

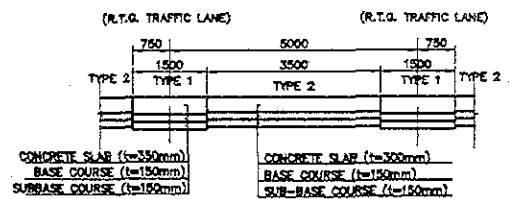
DW - PV - 01 - 004 Detail of Container stacking plate.

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karlo Garcia	26 June 2002		Mr. Tsumura		Mr. Ando		
1	KA							
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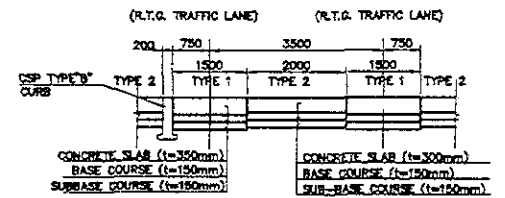
LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER
SCALE 1:200



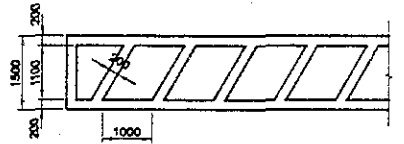
SECTION A-A
SCALE 1:100



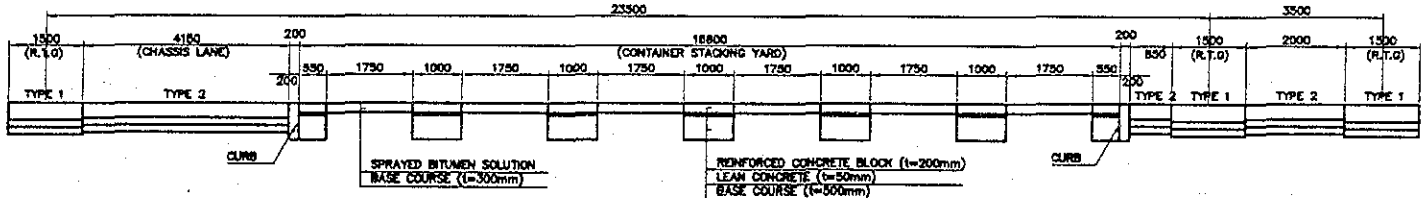
SECTION B-B
SCALE 1:100



MARKING FOR R.T.G. TRAFFIC LANE
SCALE 1:100

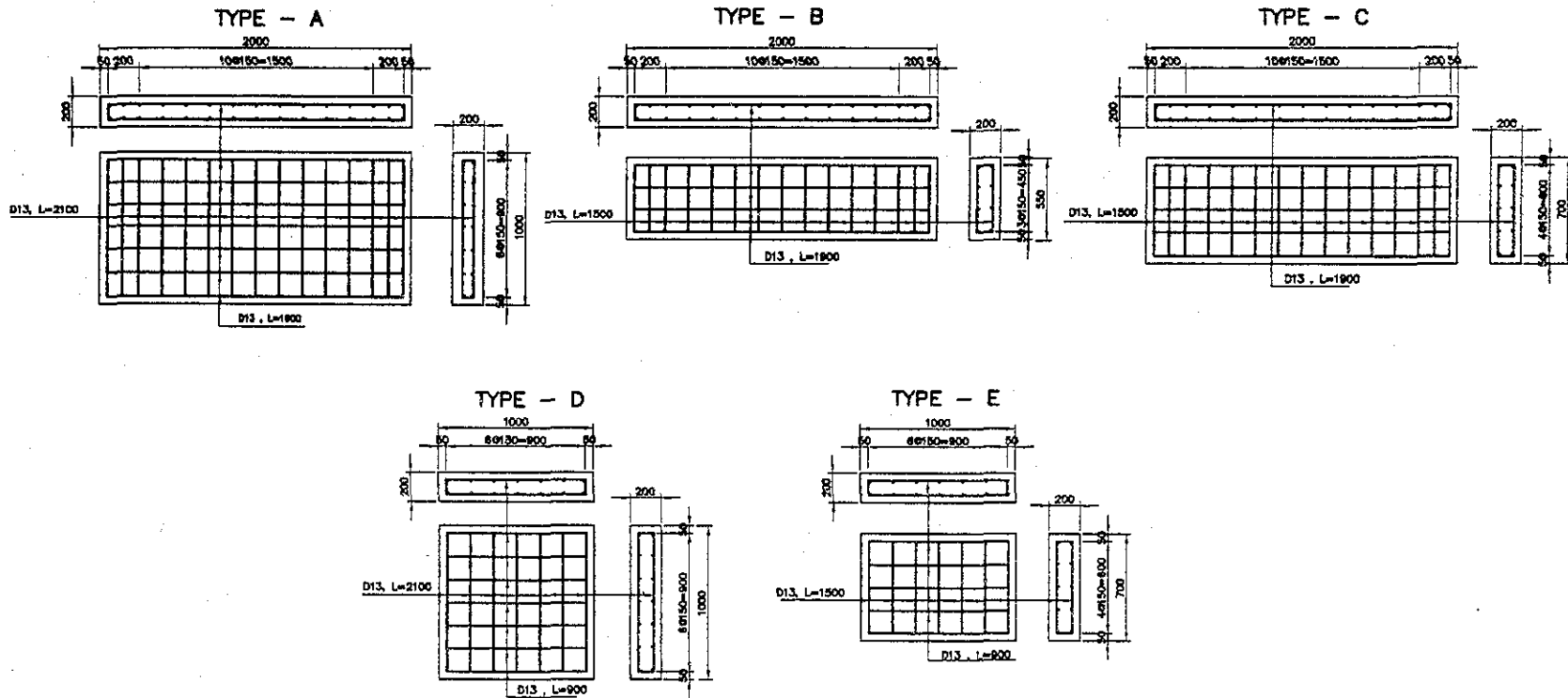


SECTION C-C
SCALE 1:100



JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)		NIPPON KOEI CO., LTD.		DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____		SECTION: ROAD AND PAVEMENT SUB-SECTION: PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT TITLE: LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER		DATE: JUNE/2002 SCALE: INDICATED DRAWING NO: DW-PV-01-002	
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DETAILS OF CONCRETE STACKING PLATE



REV. NO.	DATE	DESCRIPTION	BY	APPROVED	DATE	JICA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY :	SECTION :	ROAD AND PAVEMENT	DATE :	JULY/2002
								CHECKED BY :	SUB-SECTION :	PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT	SCALE :	1:30
								APPROVED BY :	TITLE :	DETAILS OF CONTAINER STACKING PLATE		

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE B)	Calc. Index No.	
Subject	BASE COURSE	Page No.	Rev.
<p>Stacking Yard Area:</p> <p>No stacking plate = $(42)(10) = 420$</p> <p>$A = (2\text{ m})(0.55\text{ m}) = 1.10\text{ m}^2 (120) = 162\text{ m}^2$</p> <p>$t = 50\text{ cm}$</p> <p>$V = (162\text{ m}^2)(0.50\text{ m}) = 231\text{ m}^3 \approx 240\text{ m}^3$</p>		References/Notes	<p>No = 420</p> <p>$A = 162\text{ m}^2$</p> <p>$V = 240\text{ m}^3$</p>
Prepared by		Checked by	
Karlo G.		26 June 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE B)	Pay Item No. (BOQ)	2G-070204
Quantity Item	LEAN CONCRETE	Unit	m ³

Calculation Procedure Applied


Pavement area was computed using geometric formulas.
 Volume was computed multiplying the area to the thickness of the course.
 Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
 DW-PV-01-002 Location of Container Stacking Plate for Dry Container.
 (Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Koila Garcia	26 June 2002		Mr. Inuma		Mr. Ando		
1	Koila Garcia							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE WALLING PILE (TYPE B)	Calc. Index No.	
Subject	LEAN CONCRETE	Page No.	Rev.
			References/ Notes
$A = 462 \text{ m}^2$ $t = 5 \text{ cm}$ $V = (462 \text{ m}^2) (0.05 \text{ m})$ $= 23.10 \text{ m}^3 \approx 24 \text{ m}^3$			$V = 24 \text{ m}^3$
Prepared by		Checked by	
Khalo G.		26 June 2002	
		/ /200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	CONCRETE STACKING PLATE (TYPE B)			Pay Item No. (BOQ)	24-070401			
Quantity Item	FORM FOR TYPE B			Unit	m ²			
Calculation Procedure Applied								
<p style="text-align: center;">Form area was computed using geometric formulas. Area was computed with zero decimal for total.</p>								
References, Calculation Base and Revisions								
<p style="text-align: center;">References: Tender Drawings: DW - PV - 01 - 004 Detail of Container Stacking Plate (Same as "Base Course")</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla G.	26 June 2002		Mr. Inuma		Mr. Ando		
1								
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Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE SLABING PLATE (TYPE B)	Calc. Index No.	
Subject	FORM FOR TYPE B	Page No.	
		Rev.	
		References/ Notes	
$A = [(0.20m)(2.00m) + (0.20m)(0.55m)](2) + (0.55m)(2)$ $= 2.12 m^2$			
No Bracing plate = 420			
$A_T = (2.12 m^2)(420) = 890.40 m^2 \approx 900 m^2$		$A = 900 m^2$	
Prepared by		Checked by	
Karl G.		26 June 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE B)	Pay Item No. (BOQ)	2G-070402
Quantity Item	RE-BAR FOR TYPE B.	Unit	Kg

Calculation Procedure Applied

Re-bar length was computed summarizing the distances of the different types of diameter.

References, Calculation Base and Revisions

References: Tender Drawings:

DW - PV - 01 - 004 Details of Container Stacking Plate

(Some as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Koig G.	26 June 2002		Mr. Inuma		Mr. Ando		
1								
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Project		Detailed Design on Port Reactivation Project in La Union					Calc. File No.		
Section		Concrete Stacking Plate (Type B)					Calc. Index No.		
Subject		Re-Bar For Type-B					Page No.		Rev.
								References/	
								Notes	
No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks			
Type-B									
A1	D13	1.90	8	1.8905	15.12				
A2	D13	1.20	15	1.194	17.91				
				total/block	33.03	≈ 33.10 kg			
<p>No stacking plate = 420</p> <p>$N_T = (33.10 \text{ kg}) (420) = 13,902 \text{ kg} \approx 14,000 \text{ kg}$ $W = 14,000$</p>									
Prepared by						Checked by			
Kala G.						29 June 2002			
						/ /200			

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE B)	Pay Item No. (BOQ)	2G-070403
Quantity Item	CONCRETE FOR TYPE B	Unit	m ³

Calculation Procedure Applied

Concrete area was computed using geometric formulas.
Volume was computed multiplying the area to the thickness of the stacking plate.

Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

References : Tender Drawings :
DW - PU - 01 - 004 Detail of Container Stacking Plate
(Same as "Base Course")

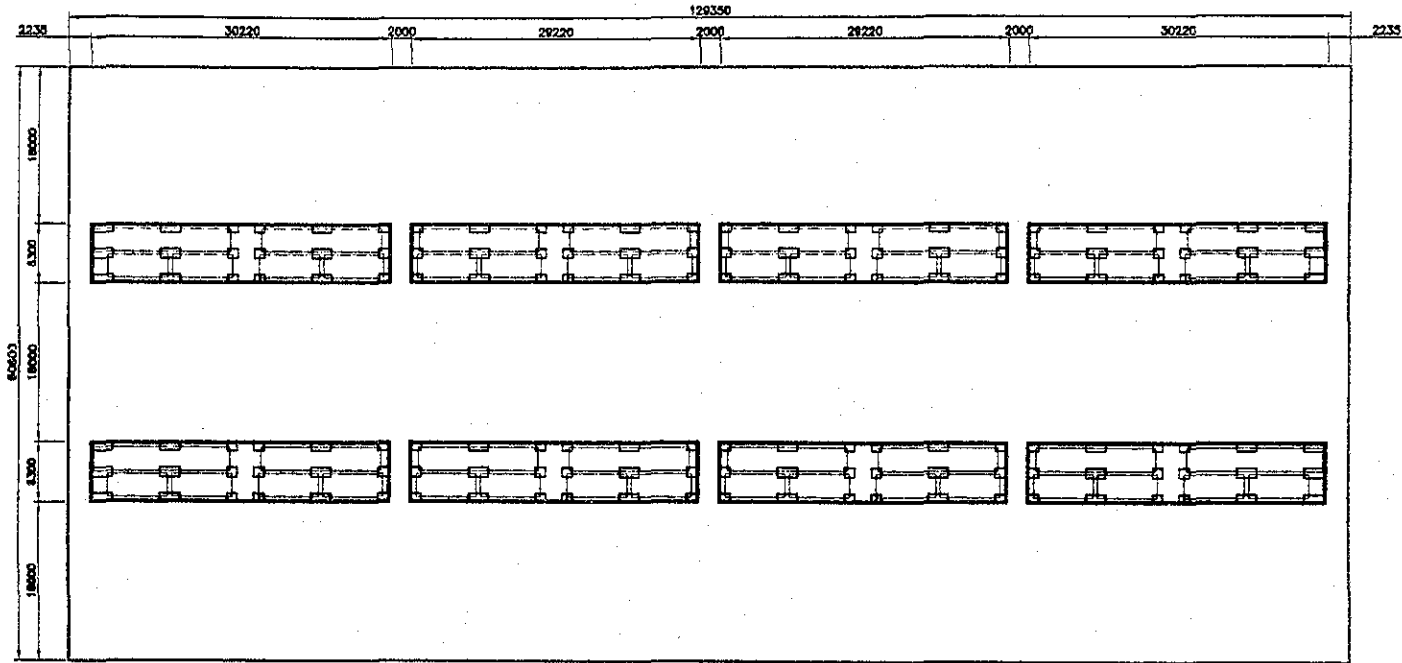
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karlo G.	26 June 2002		Mr. Truma		Mr. Ando		
1	KA							
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Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE B)	Calc. Index No.	
Subject	CONCRETE FOR TYPE B	Page No.	Rev.
			References/ Notes
$V = (0.90 \text{ m})(2.00 \text{ m})(0.55 \text{ m}) = 0.99 \text{ m}^3$			
<p>No stacking plate = 420</p>			
$V_T = (0.99 \text{ m}^3)(420) = 415.8 \text{ m}^3 \approx 416 \text{ m}^3$			$V = 93^3$
Prepared by		Checked by	
Kaito G.		26 / Jun / 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	CONCRETE STACKING PLATE (TYPE C)			Pay Item No. (BOQ)	EG-070205			
Quantity Item	BASE COURSE			Unit	m ³			
Calculation Procedure Applied								
<p>Pavement area was computed using geometric formulas. Base course volume was multiplying the area to the thickness of the course.</p> <p>Volume was computed with two decimal for section area and zero decimal for total.</p>								
References, Calculation Base and Revisions								
<p>References : Tender Drawings:</p> <p>DW - PV - 01 - 003 location of Container Stacking Plate for Rectr Cont.</p> <p>DW - PV - 01 - 004 Details of Container Stacking Plate</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Kala G.	27 June 2002		Mr. Inuma		Mr. Ando		
1	Kala G.							
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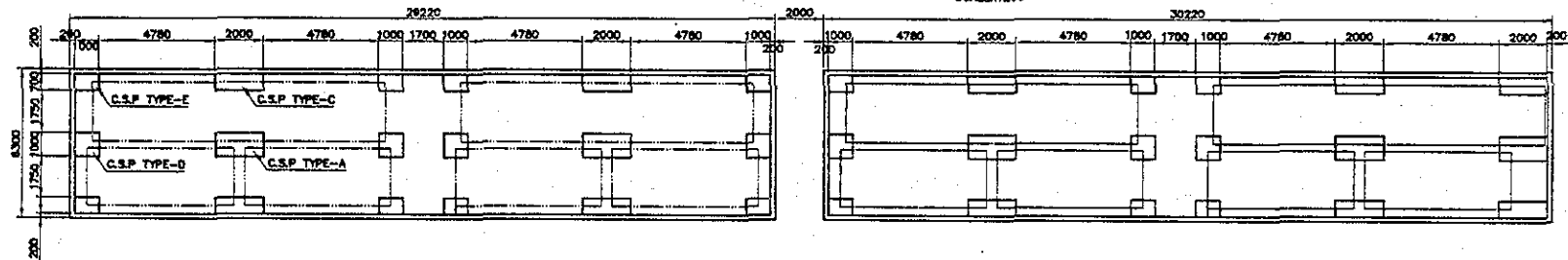
LAYOUT OF CONTAINER STACKING PLATE FOR REEFER CONTAINER

SCALE:1:500



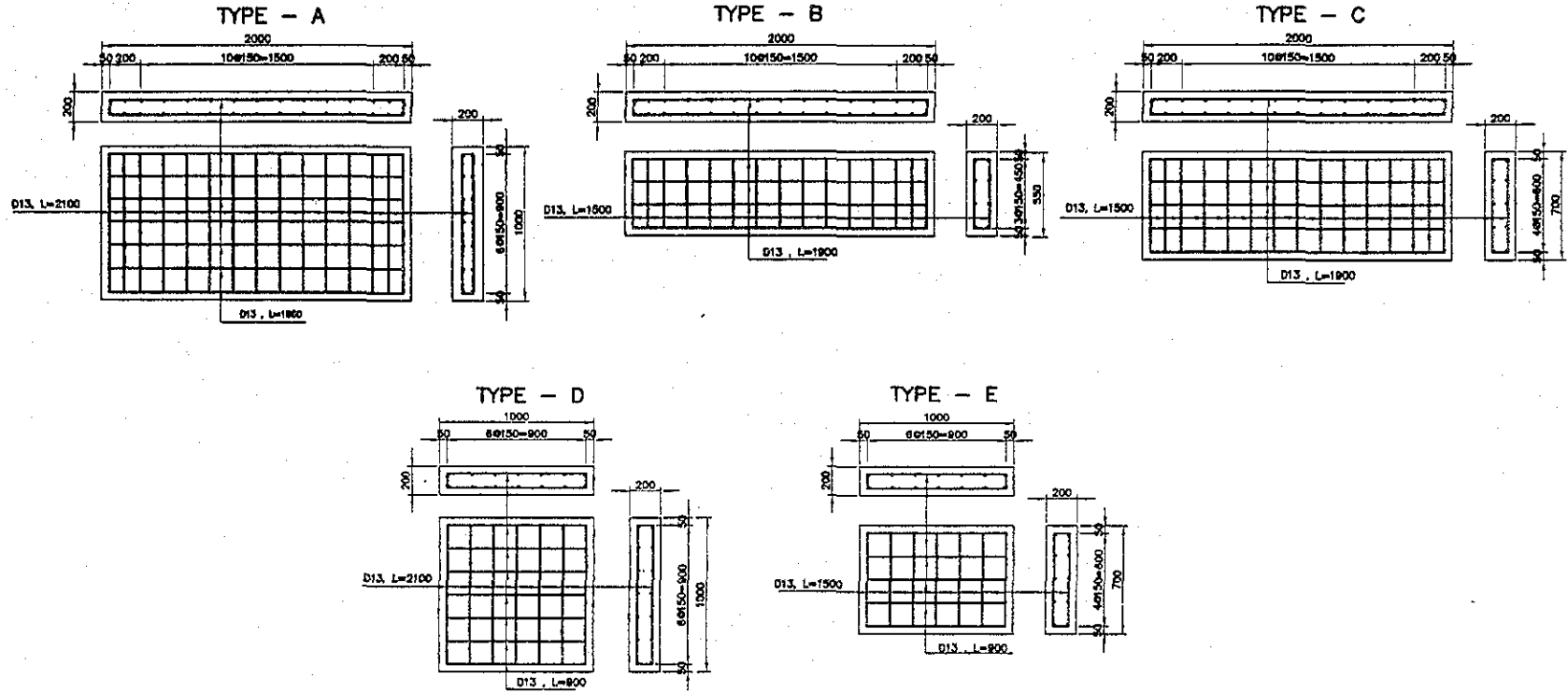
DETAILS OF CONTAINER STACKING YARD

SCALE:1:200



 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : ROAD AND PAVEMENT SUB-SECTION : PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT TITLE : LOCATION OF CONTAINER STACKING PLATE FOR REEFER CONTAINER	DATE : JULY/2002 SCALE : INDICATED DRAWING NO. : DW-PV-01-003
			DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR		

DETAILS OF CONCRETE STACKING PLATE



REV. NO.	DATE	DESCRIPTION	BY	APPROVED	DATE	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR</p> <p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY :	SECTION :	DATE :
								CHECKED BY :	SUB-SECTION :	SCALE :
								APPROVED BY :	TITLE :	DRAWING NO. :
									ROAD AND PAVEMENT	JULY/2002
									PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT	1:30
									DETAILS OF CONTAINER STACKING PLATE	DW-PV-01-004

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE - C)	Calc. Index No.	
Subject	BLSE COURSE	Page No.	Rev.

References/Notes
<p>Rectangular Container Area :</p> <p>No. Stacking plate = 40</p> <p>$A = (2m)(0.70m) = 1.40m^2 \quad 40 = 56m^2$</p> <p>$t = 50 \text{ cm}$</p> <p>$V = (56m^2)(0.50m) = 28m^3$</p>
<p>No = 40</p> <p>$A = 56m^2$</p> <p>$V = 28m^3$</p>

	Prepared by	Checked by	
	Kado Co., 27 June/2002		1 /200

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYAC)	Pay Item No. (BOQ)	2G-070206
Quantity Item	LEAN CONCRETE	Unit	m ³

Calculation Procedure Applied

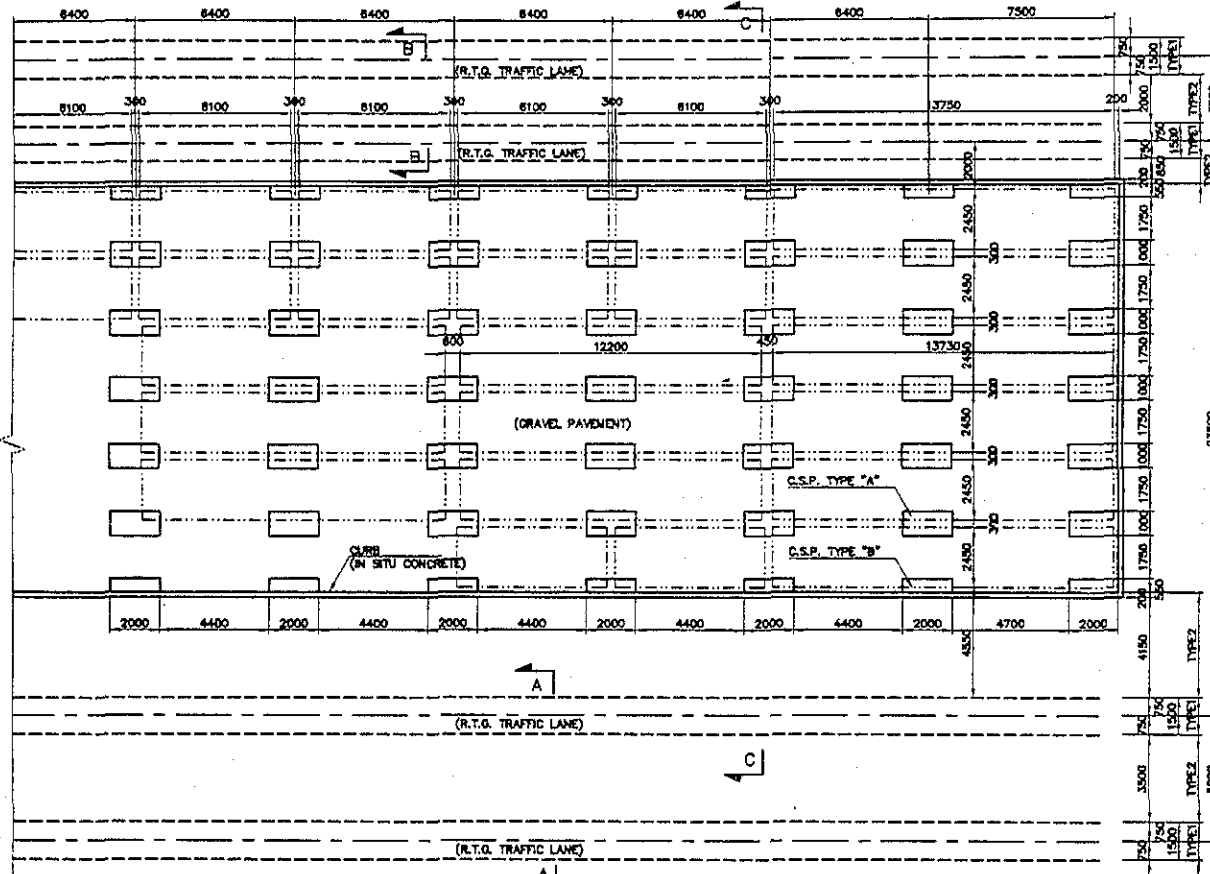
Pavement area was computed using geometric formulas.
 Volume was computed multiplying the area to the thickness of the course.
 Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

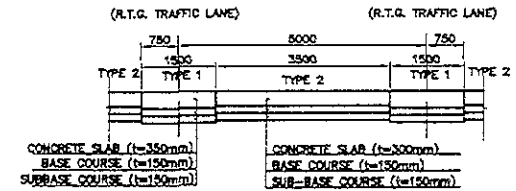
References: Tender Drawings:
 DW - PV - 01 - 002 - location of Container Stacking Plate for Dry Container

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	29 June 2012		Mr. Inuma		Mr. Ando		
1	JA							
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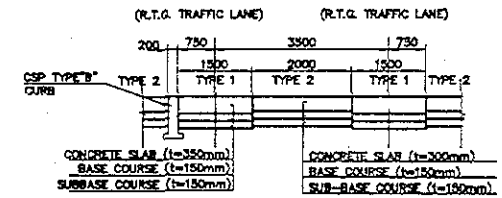
LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER
SCALE 1:200



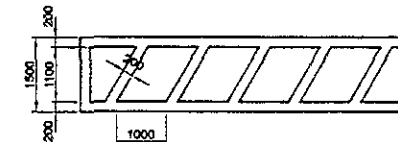
SECTION A-A
SCALE 1:100



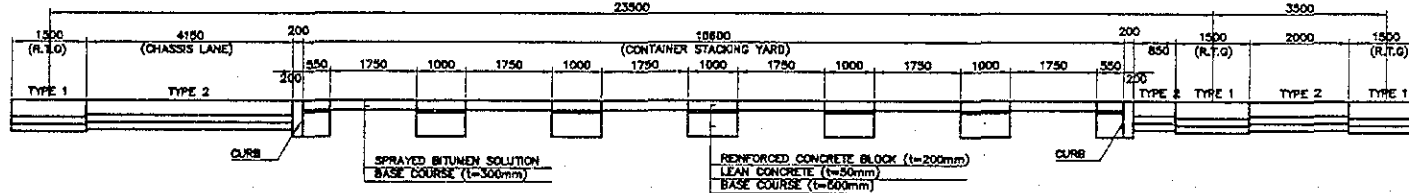
SECTION B-B
SCALE 1:100



MARKING FOR R.T.G. TRAFFIC LANE
SCALE 1:100



SECTION C-C
SCALE 1:100



REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) Gpa COMISION EJECUTIVA PORTUARIA AUTONOMA (CRPA)	NIPPON KOEI CO., LTD.	DESIGNED BY :	SECTION :	ROAD AND PAVEMENT	DATE :	JUNE/2002
								DECIDED BY :	SUB-SECTION :	PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT	SCALE :	INDICATED
								APPROVED BY :	TITLE :	LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER	DRAWING NO. :	DW-PV-01-002

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE C)	Calc. Index No.	
Subject	LEAN CONCRETE	Page No.	Rev.
$A = 56 \text{ m}^2$ $t = 5 \text{ cm}$ $V = (56 \text{ m}^2) (0.05 \text{ m})$ $= 2.80 \text{ m}^3$			References/ Notes
Prepared by		Checked by	
Karlo Garcia 27 Feb 2000		/ 2000	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE C)	Pay Item No. (BOQ)	2G - 070501
Quantity Item	FORM FOR TYPE C	Unit	m ²

Calculation Procedure Applied

The area was computed using geometric formulas.
Area was rounded with zero decimal for total.

References, Calculation Base and Revisions

References : Tender Drawings:
DW - PV - 01 - 004 Details of Container Stacking Plate
(Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Koiso Goro	27 June 2002		Hi. Tsujima		Hi. Ando		
1								
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Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE C)	Calc. Index No.	
Subject	FORM FOR TYPE C	Page No.	Rev.
			References/ Notes
$A = \left[\frac{(0.20\text{ m})(2.00\text{ m})}{2} + (0.20\text{ m})(0.70\text{ m}) \right] (2) + (0.70\text{ m})(2\text{ m})$ $= 2.48\text{ m}^2$			
No. Stacking plate = 40			
$A_T = (2.48\text{ m}^2) / 40 = 99.20\text{ m}^2 \approx 100\text{ m}^2$			$A = 100\text{ m}^2$
		Prepared by	Checked by
		Kaio S.	1 / 200

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE C)	Pay Item No. (BOQ)	2G-070502
Quantity Item	RE-BAR FOR TYPE C	Unit	Kg

Calculation Procedure Applied

Re-Bar length was computed summarizing the distances of the different types of diameter.

References, Calculation Base and Revisions

References : Tender Drawings:
 DW - PV - 01 - 004 Details of Container Stacking Plate
 (Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Kaito Garcia	27 June 2002		Mr. Tanaka		Mr. Ando		
1	KA							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union					Calc. File No.	
Section	Concrete Stacking Plate (Type C)					Calc. Index No.	
Subject	Re-Bar For Type-C					Page No.	Rev.
						References/ Notes	
	No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks
	Type-C						
	A1	D13	1.90	10	1.8905	18.91	
	A2	D13	1.50	15	1.4925	22.39	
					total/block	41.3	
<p>No Stacking Plate = 40</p> <p>$W_T = (41.30 \text{ kg}) (40) = 1,652 \text{ kg} \approx 1,700 \text{ kg}$ $W = 1,700 \text{ kg}$</p>							
Prepared by					Checked by		
Karla G.					27 June 2002		
					/ /200		

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE C)	Pay Item No. (BOQ)	2G-070503
Quantity Item	CONCRETE FOR TYPE - C	Unit	m ³

Calculation Procedure Applied

Concrete area was computed using geometric formulas.
 Volume was computed multiplying the area to the thickness of the stacking plate.
 Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
 DW-PV-01-009 Details of Container Stacking Plate
 (Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karlo Garuio	27 JUNE 2022		Pl. Jauma		Mr. Ando		
1	Karlo Garuio							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE C)	Calc. Index No.	
Subject	CONCRETE FOR TYPE C	Page No.	Rev.
$V = (0.20m)(2.00m)(0.70m) = 0.28 m^3$ <p>No. Stacking Plots = 40</p> $V_T = (0.28 m^3)(40) = 11.20 m^3 \approx 12 m^3$		References/ Notes	
		<div style="display: flex; justify-content: space-between;"> Prepared by Korla G. Checked by </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 17 June 2002 1 / 200 </div>	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE D)	Pay Item No. (BOQ)	26-070207
Quantity Item	BASE COURSE	Unit	m ³

Calculation Procedure Applied

Pavement area was computed using geometric formulas.
 Base course volume was computed multiplying the area by the thickness of the course.
 Volume was computed with two decimal for section area and one decimal for total.

References, Calculation Base and Revisions

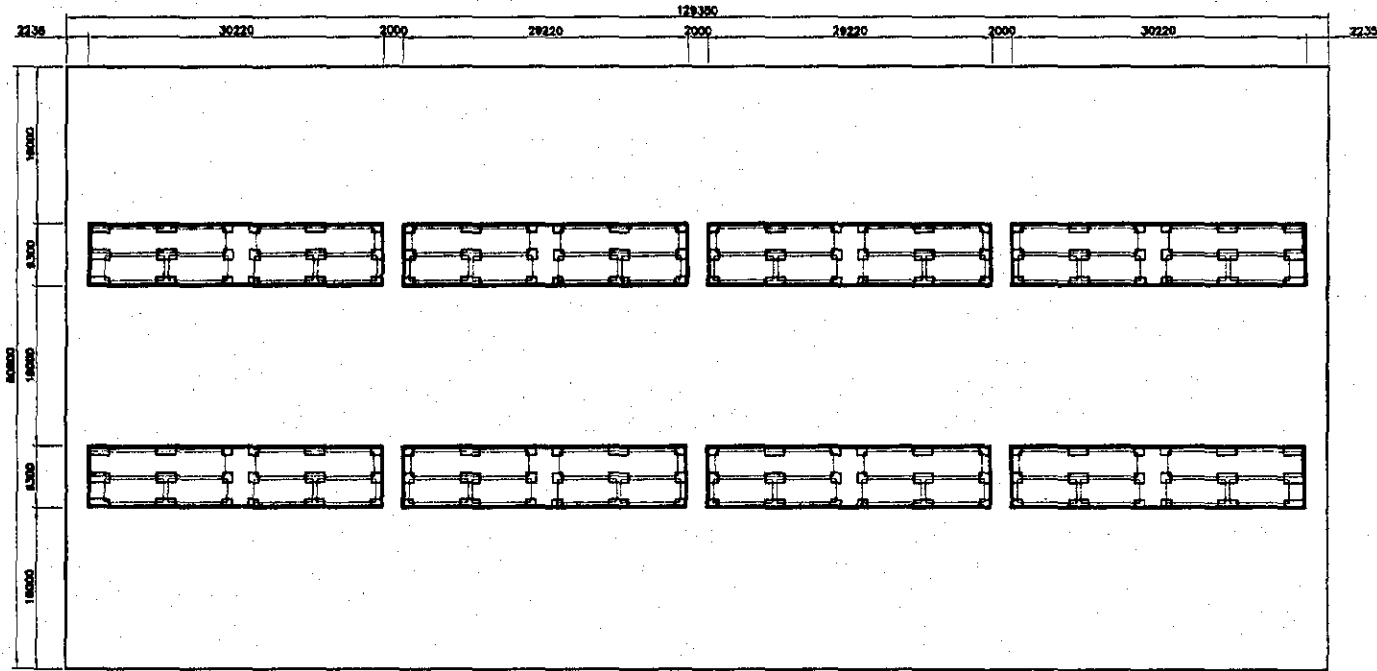
References : Tender Drawings :

DW - PV - 01 - 003 Location of Container Stacking Plate for Recker Cont.
 DW - PV - 01 - 004 Details of Container Stacking Plate.

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Koito G.	27 June 2002		Mr. Inuma		Mr. Ando		
1	Koito G.							
2								
3								

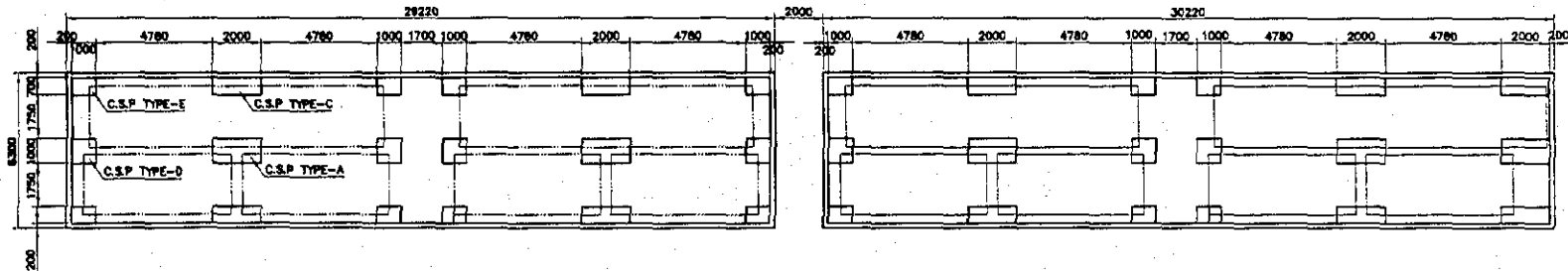
LAYOUT OF CONTAINER STACKING PLATE FOR REEFER CONTAINER




SCALE: 1:500



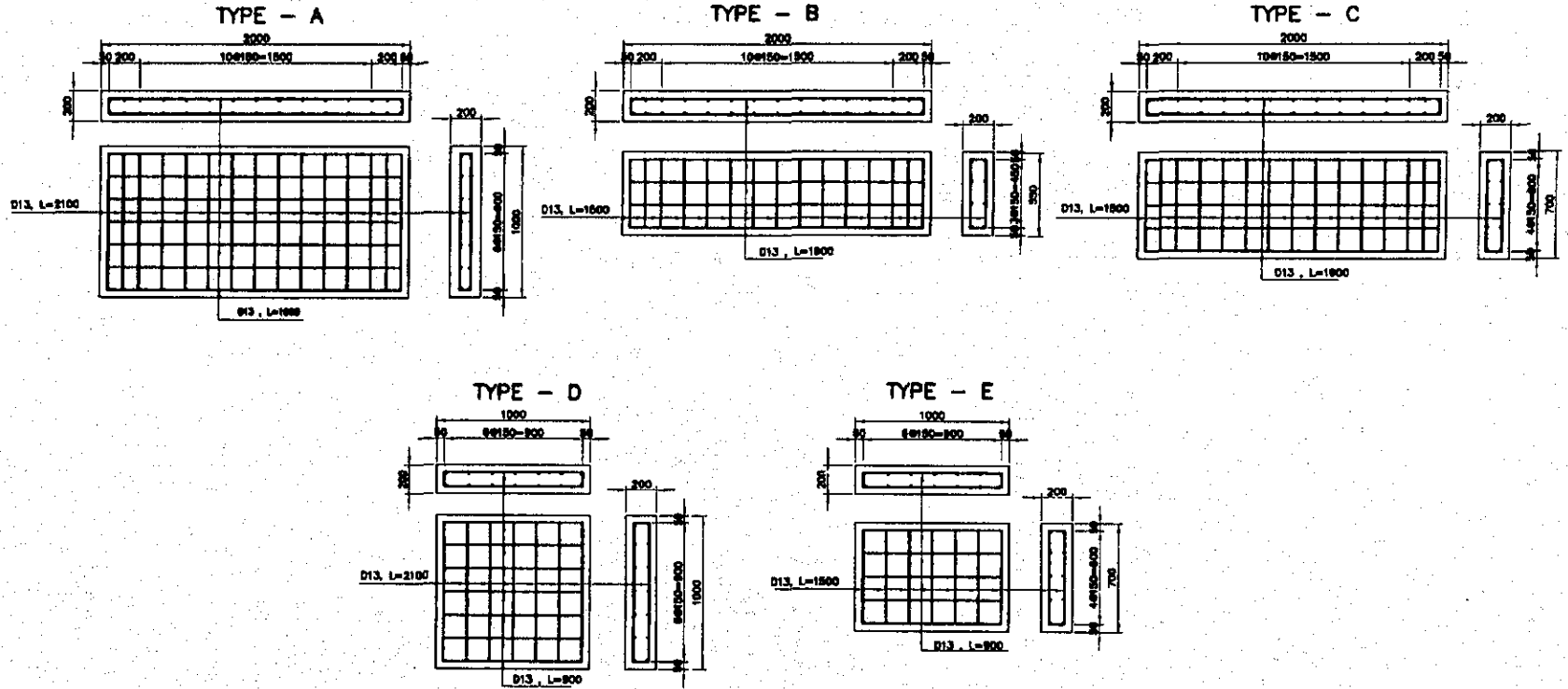
DETAILS OF CONTAINER STACKING YARD

SCALE: 1:200



REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR	DESIGNED BY:	SECTION :	DATE :
								DECIDED BY:	SUB-SECTION :	JULY/2002
						 COMISION EJECUTIVA PORTUARIA AUTONOMA (CRPA)	 NIPPON KAIH CO., LTD.	APPROVED BY:	TITLE :	SCALE :
									LOCATION OF CONTAINER STACKING PLATE FOR REEFER CONTAINER	INDICATED
										DRAWING NO. : DW-PV-01-003

DETAILS OF CONCRETE STACKING PLATE



NO.	DATE	REVISION	BY	APPROVED	DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOKI CO., LTD.	DESIGNED BY :	SECTION :	ROAD AND PAVEMENT	DATE :	JULY/2002
											CHECKED BY :	SUB-SECTION :	PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT
									APPROVED BY :	DATE :	DETAILS OF CONTAINER STACKING PLATE	DRAWING NO. :	DW-PV-01-004

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE D)	Calc. Index No.	
Subject	BASE COURSE	Page No.	Rev.

	References/ Notes
<p>Rectangular Area:</p> $No\ of\ plates = 25 \times 25 = 28$ $A = (1m \times 1m = 1m^2) \times (28) = 28 m^2$ $t = 50\ cm$ $V = (28 m^2) \times 0.50 m = 14 m^3$	<p>No = 28</p> <p>A = 28 m²</p> <p>V = 14 m³</p>

Prepared by Kailla G.	27 June 2002	Checked by
		1 / 200

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPED)	Pay Item No. (BOQ)	26-070208
Quantity Item	LEAN CONCRETE	Unit	m ³

Calculation Procedure Applied

Pavement area was computed using geometric formulas.
Volume was computed multiplying the area to the thickness of the course.

Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

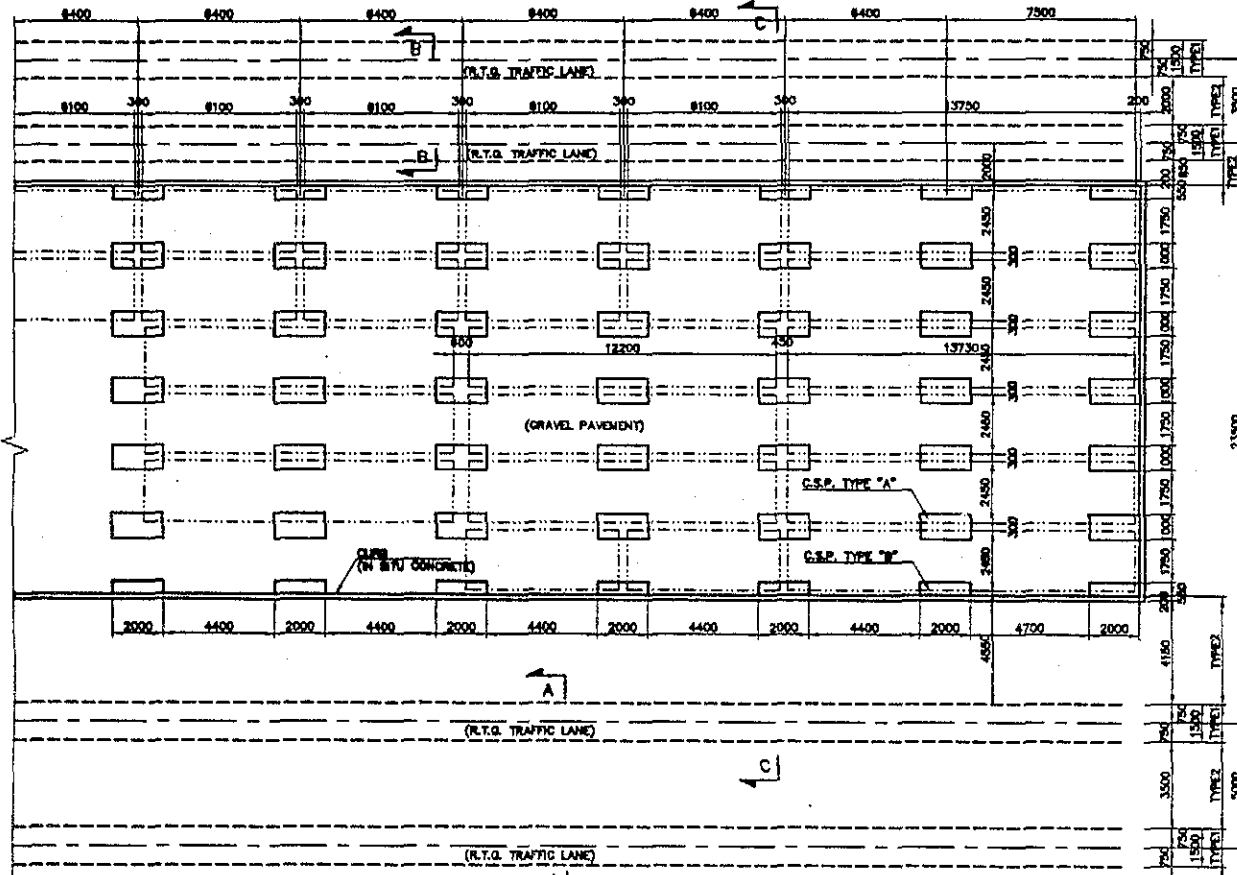
References: Tender Drawings:

DW - PU - 01 - 002 location of container stacking plate for Dry Container

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Espina	27 June 2002		Mr. Tsuma		Mr. Ando		
1	Karla							
2								
3								

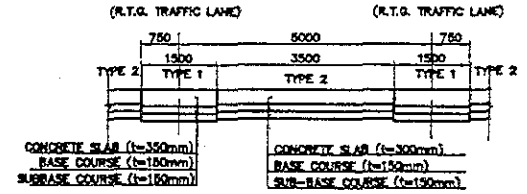
LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER

SCALE 1:200



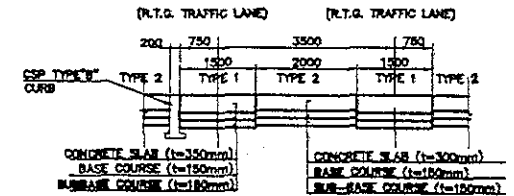
SECTION A-A

SCALE 1:100



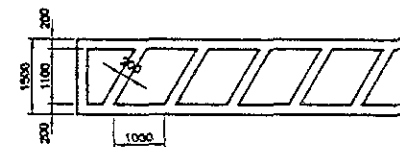
SECTION B-B

SCALE 1:100



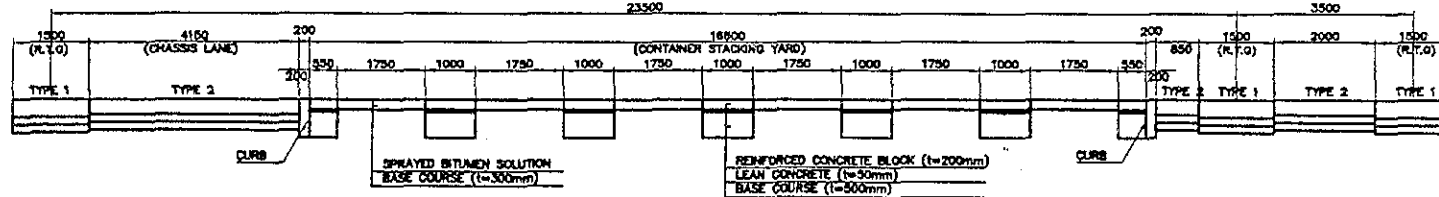
MARKING FOR R.T.G. TRAFFIC LANE

SCALE 1:100



SECTION C-C

SCALE 1:100



JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION :	ROAD AND PAVEMENT	DATE :	JUNE/2002
			CHECKED BY:	SUB-SECTION :	PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT	SCALE :	INDICATED
			APPROVED BY:	TITLE :	LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER	DRAWING NO. :	DW-PV-01-002

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE D)	Calc. Index No.	
Subject	LEAN CONCRETE	Page No.	Rev.
$A = 28 \text{ m}^2$ $t = 5 \text{ cm}$ $V = (28 \text{ m}^2)(0.05 \text{ m})$ $= 1.40 \text{ m}^3$		References/Notes	
Prepared by		Checked by	
Kaila G.		27/Jan/2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE D)	Pay Item No. (BOQ)	2G-070601
Quantity Item	FORM FOR TYPE D	Unit	m ²

Calculation Procedure Applied

Form area was computed using geometric formulas.
Area was computed with zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
BW-PV-01-004 Details of Container Stacking Plate
(Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	27 June 2002		Hi. Inuma		Hi. Ando		
1	KA							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE D)	Calc. Index No.	
Subject	FORM FOR TYPE D	Page No.	Rev.
		References/ Notes	
$A = [(0.20m)(1.00m) + (0.20m)(1.00m)](2) - (1m)(1m)$ $= 1.80 m^2$			
No stacking Plate = 28			
$A = (1.80 m^2)(28) = 50.40 m^2 \approx 51 m^2$		$A = 51 m^2$	
Prepared by		Checked by	
Kata G.		27 June 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE D)	Pay Item No. (BOQ)	24-070602
Quantity Item	RE-BAR FOR TYPE D	Unit	Kg

Calculation Procedure Applied

Re-Bar length was computed summarizing the distances of the different types of diameter.

References, Calculation Base and Revisions

References: Tender Drawings:
DW - PV - 01 - 004 Details of Container Stacking Plate
(Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Soria	27 June 2002		Mr. Truma		Mr. Ando		
1	KA							
2								
3								

Project		Detailed Design on Port Reactivation Project in La Union				Calc. File No.		
Section		Concrete Stacking Plate (Type D)				Calc. Index No.		
Subject		Re-Bar For Type-D				Page No.		Rev.
								References/ Notes
No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks		
Type-D								
A1	D13	0.90	14	0.8955	12.54			
A2	D13	2.10	7	2.0895	14.63			
				total/block	27.17	≈ 27.20 kg		
No stacking plate = 28								
$W = (27.20 \text{ kg}) \cdot (28) = 761.60 \text{ kg} \approx 770 \text{ kg}$								
W = 770 kg								
				Prepared by	Checked by			
				Karla G.	27 / June / 2002		/ / 200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	CONCRETE STACKING PLATE (TYPE D)			Pay Item No. (BOQ)	2G-070603			
Quantity Item	CONCRETE FOR TYPE D			Unit	m ³			
Calculation Procedure Applied								
<p>Concrete area was computed using geometric formulas. Volume was computed multiplying the area to the thickness of the stacking plate. Volume was computed with two decimal for section area and zero decimal for total.</p>								
References, Calculation Base and Revisions								
<p>References: Tender Drawings: DW-PV-01-004 Details of Container Stacking Plate (Some as "Base Course")</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Kaito Goto	27 June 2002		Mr. Inuma		Mr. Ando		
1	KA							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE D)	Calc. Index No.	
Subject	CONCRETE FOR TYPE D	Page No.	Rev.
$V = (0.20 \text{ m})(1.00 \text{ m})(1.00 \text{ m}) = 0.20 \text{ m}^3$ <p>No stacking plate = 28</p> $V = (0.20 \text{ m}^3)(28) = 5.60 \text{ m}^3 \approx 6 \text{ m}^3$			References/ Notes
Prepared by		Checked by	
Kata G.		27 June 2002 1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE E)	Pay Item No. (BOQ)	2G-070209
Quantity Item	BASE COURSE	Unit	m ³

Calculation Procedure Applied

Pavement area was computed using geometric formulas.
Base course volume was computed multiplying the area by the thickness of the course.

Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

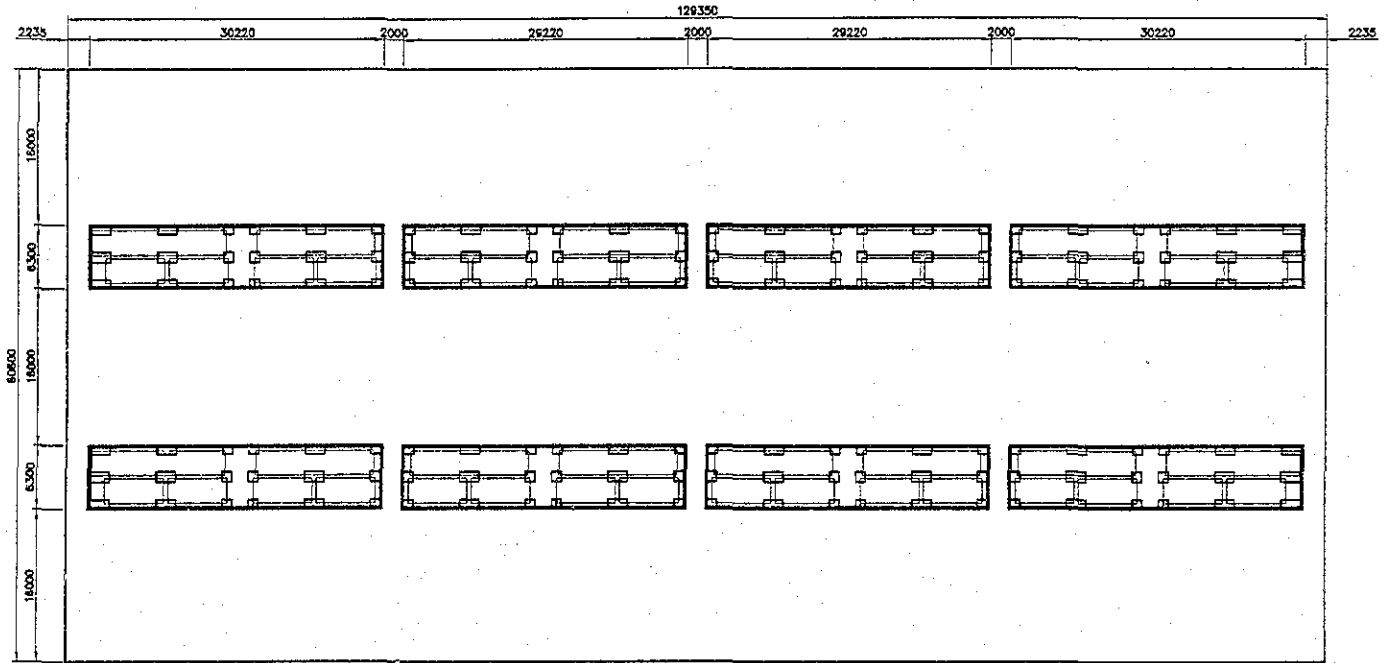
References: Tender Drawings:

DY - 01 - 01 - 003 Location of Container Stacking Plate for Dry Container
DY - 01 - 01 - 004 Details of Container Stacking Plate

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Goza	27 June 2002		Mr. Inuma		Mr. Ando		
1	KA							
2								
3								

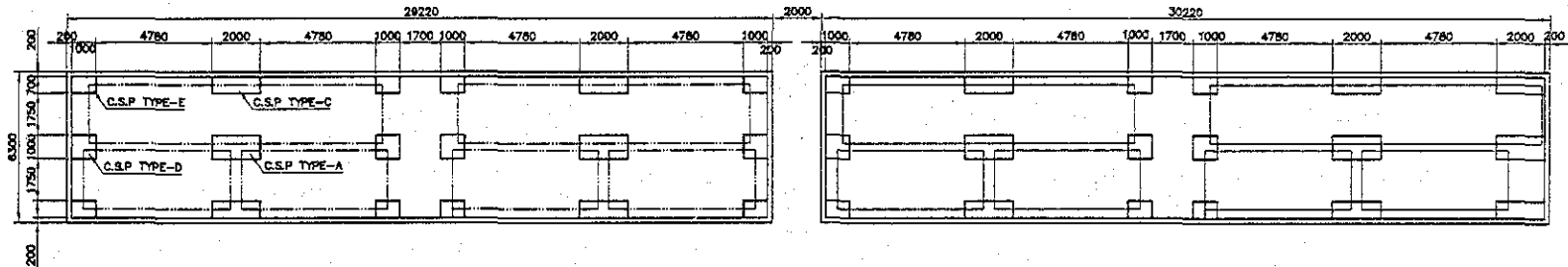
LAYOUT OF CONTAINER STACKING PLATE FOR REEFER CONTAINER




SCALE:1:500



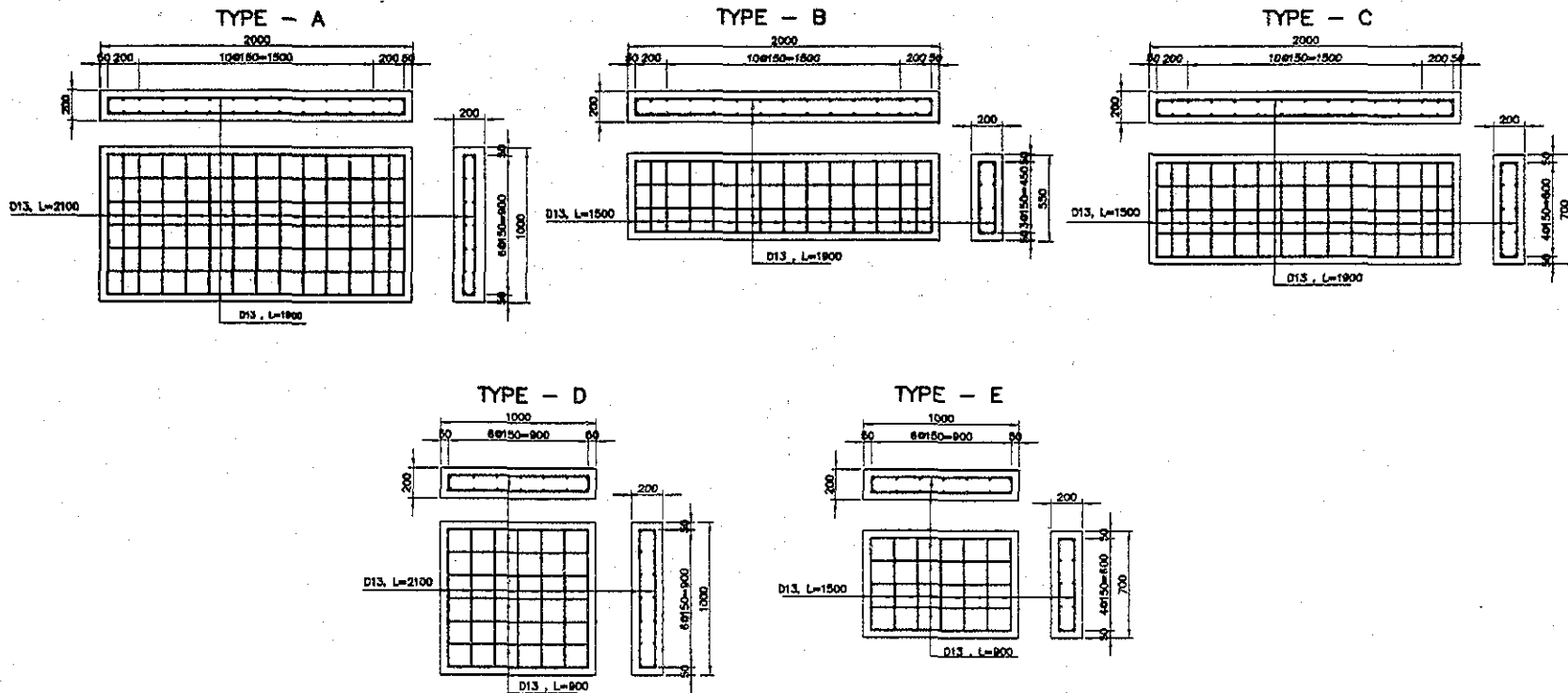
DETAILS OF CONTAINER STACKING YARD

SCALE:1:200



REV. NO.	DATE	COORDINATE	BY	APPROVED DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR	DESIGNED BY:	SECTION	ROAD AND PAVEMENT	DATE:	JULY/2002
							CHECKED BY:	SUB-SECTION	PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT	SCALE:	INDICATED
							APPROVED BY:	TITLE	LOCATION OF CONTAINER STACKING PLATE FOR REEFER CONTAINER	DRAWING NO.:	DW-PV-01-003
					 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 NIPPON KOEI CO., LTD.					

DETAILS OF CONCRETE STACKING PLATE



		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		DESIGNED BY :		SECTION : ROAD AND PAVEMENT		DATE : JULY/2002	
		COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)		CHECKED BY :		SUB-SECTION : PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT		SCALE : 1:30	
NIPPON KOKI CO., LTD.		DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR		APPROVED BY :		TITLE : DETAILS OF CONTAINER STACKING PLATE		DRAWING NO. DW-PV-01-004	
NO.	DATE	CORRECTIVE	BY	APPROVED	DATE				

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE E)	Calc. Index No.	
Subject	BASE COURSE	Page No.	Rev.
		References/Notes	
<p> $1:0.5$ SLOPE $1:0.5$ SLOPE $A = (1m) \cdot 0.50m = 0.50m^2 (56) = 39.20m^2$ $t = 30cm$ $V = (39.20m^2) (0.50m) = 19.60m^3 = 40m^3$ </p>		<p> $N = 56$ $A = 39.20m^2$ $V = 40m^3$ </p>	
Prepared by		Checked by	
Kaito S.		1 / 200	
27 / Jun / 2002			

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE E)	Pay Item No. (BOQ)	24-070210
Quantity Item	LEAN CONCRETE	Unit	m ³

Calculation Procedure Applied

Pavement area was computed using geometric formulas.
Volume was computed multiplying the area to the thickness
of the course.

Volume was computed with two decimal for section area
and zero decimal for total.

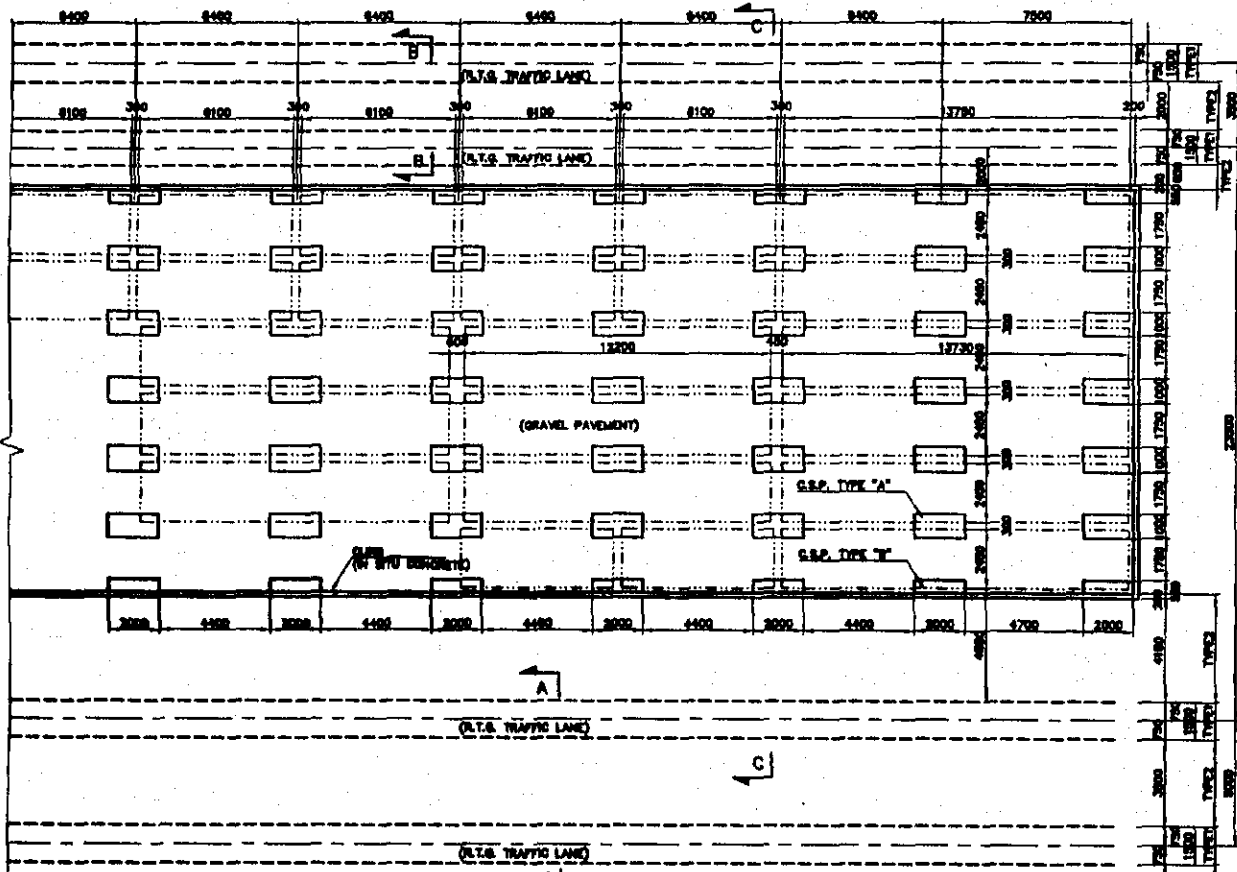
References, Calculation Base and Revisions

References: Tender Drawings:
DW-PJ-01-002 location of container stacking plate for Dry Container

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	27 June 2002		Mr. Truma		Mr. Ando		
1	KA							
2								
3								

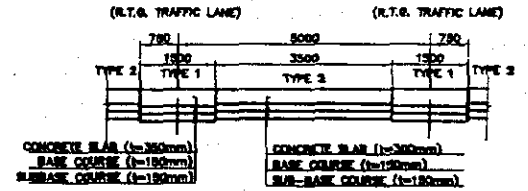
LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER

SCALE 1:200



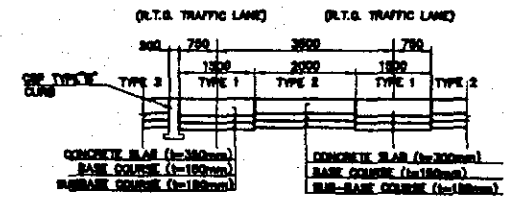
SECTION A-A

SCALE 1:100



SECTION B-B

SCALE 1:100



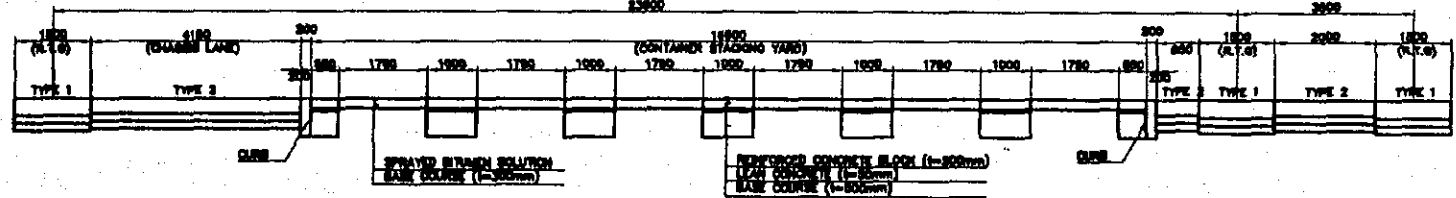
MARKING FOR R.T.G. TRAFFIC LANE

SCALE 1:100



SECTION C-C

SCALE 1:100



NO.	DATE	REVISION	BY	APPROVED	DATE	JICA CEPA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMMON EXECUTIVE FORTULANA AUTONOMA (CEPA)	DETAILED DESIGN ON PORT REACTIVATION PROJECT BY LA USON PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	ROAD AND PAVEMENT PORT SERVICE ROAD AND CONTAINER YARD PAVEMENT LOCATION OF CONTAINER STACKING PLATE FOR DRY CONTAINER	DATE:	JUNE/2002
								DRAWN BY:	SCALE:	INDICATED	
								APPROVED BY:		DESIGN NO.:	DR-PV-01-002

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STAIRING PLATE (TYPE D)	Calc. Index No.	
Subject	LEAN CONCRETE	Page No.	Rev.
$A = 29.92 \text{ m}^2$ $t = 5 \text{ cm}$ $V = 29.92 \text{ m}^2 \times (0.05 \text{ m}) = 1.496 \text{ m}^3 \approx 1.5 \text{ m}^3$			References/ Notes
Prepared by		Checked by	
Kouji G.		1 June 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE E)	Pay Item No. (BOQ)	2G-070701
Quantity Item	FORM FOR TYPE E	Unit	m ²

Calculation Procedure Applied

Form area was computed using geometric formulas.
Area was computed with zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
DW-PV-01-004 Details of Container Stacking Plate
(Some as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	27 June 2002		Hr. Truma		Mr. Ando		
1	KA							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE E)	Calc. Index No.	
Subject	FORM #02 TYPE E	Page No.	Rev.
			References/ Notes
$A = [(0.20m)(0.00m + (0.20m)(0.9m))] (2) + (1.00m)(0.175m)$ $= 1.38 \text{ m}^2$			
<p>No. Stacking Plate = 56</p>			
$A_T = (1.38 \text{ m}^2)(56) = 77.28 \text{ m}^2 \approx 78 \text{ m}^2$			$A = 78 \text{ m}^2$
Prepared by		Checked by	
Karlo G.		27 / June / 2002	
		1 / 200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	CONCRETE STACKING PLATE (TYPE E)			Pay Item No. (BOQ)	2G-070702			
Quantity Item	RE-BAR FOR TYPE E			Unit	Kg			
Calculation Procedure Applied								
<p style="text-align: center;">Re-Bar length was computed summarizing the distances of the different types of diameter.</p>								
References, Calculation Base and Revisions								
<p style="text-align: center;">References: Tender Drawings: DW - PV - 01 - 004 Details of Container Stacking Plate (Same as "Base Course")</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	27 June 2002		Mr. Jauma		Mr. Ando		
1	Karla Garcia							
2								
3								

Project		Detailed Design on Port Reactivation Project in La Union					Calc. File No.		
Section		Concrete Stacking Plate (Type E)					Calc. Index No.		
Subject		Re-Bar For Type-E					Page No.		Rev.
								References/	
								Notes	
No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks			
Type-E									
A1	D13	0.90	10	0.8955	8.96				
A2	D13	1.50	7	1.4925	10.45				
					total/block	19.41	≈ 19.50 kg		
<p>No stacking plate = 50</p> <p>$W_T = (19.50 \text{ kg}) (50) = 975 \text{ kg} \approx 1,000 \text{ kg}$ $W_U = 1,150 \text{ kg}$</p>									
Prepared by						Checked by			
						/ /200			/ /200

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE STACKING PLATE (TYPE E)	Pay Item No. (BOQ)	2G-070703
Quantity Item	CONCRETE FOR TYPE E	Unit	m ³

Calculation Procedure Applied

Concrete area was computed using geometric formulas.
 Volume was computed multiplying the area to the thickness of the stacking plate.
 Volume was computed with two decimal for section area and zero decimal for total.

References, Calculation Base and Revisions

References: Tender Drawings:
 DW-PV-01-004 Details of Container Stacking Plate
 (Same as "Base Course")

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	Karla Garcia	27 June 2002		Mr. Inuma		Mr. Ando		
1	fd							
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	CONCRETE STACKING PLATE (TYPE E)	Calc. Index No.	
Subject	CONCRETE FOR TYPE E	Page No.	Rev.
			References/ Notes
$V = (0.20\text{m}) (1.00\text{m}) (0.70\text{m}) = 0.14\text{m}^3$			
No. Stacking Plates = 56			
$V = (0.14\text{m}^3) (56) = 7.84\text{m}^3 \approx 8\text{m}^3$			$V = 8\text{m}^3$
Prepared by		Checked by	
Kaito G.		27 June 2002	
		1 / 200	