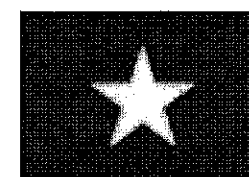


**THE SOCIALIST REPUBLIC OF VIETNAM  
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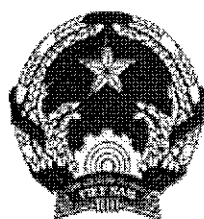
**CAI MEP – THI VAI INTERNATIONAL PORT  
CONSTRUCTION PROJECT  
L/A No. VN XII-2**

**CONTRACT PACKAGE 2  
CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR  
THI VAI INTERNATIONAL GENERAL CARGO TERMINAL**

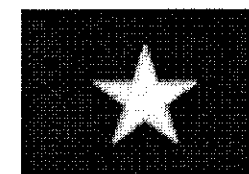
**VOLUME IV  
BID DRAWINGS (1/2)  
CIVIL AND UTILITY WORKS**

**February 2006**

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**



**THE SOCIALIST REPUBLIC OF VIETNAM  
MINISTRY OF TRANSPORT  
PROJECT MANAGEMENT UNIT 85**



**CAI MEP – THI VAI INTERNATIONAL PORT  
CONSTRUCTION PROJECT  
L/A No. VN XII-2**

**CONTRACT PACKAGE 2  
CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR  
THI VAI INTERNATIONAL GENERAL CARGO TERMINAL**

**VOLUME IV  
BID DRAWINGS (1/2)**

**CIVIL AND UTILITY WORKS**

APPROVED BY:

\_\_\_\_\_  
Kohei Nagai, Team Leader

**February 2006**

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**  
**PACKAGE 2 : CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA**  
**VOLUME IV : BID DRAWINGS - CIVIL AND UTILITY WORKS -**  
**LIST OF THE DRAWINGS**

[	1	]	GENERAL INFORMATION
[	2	]	SITE CONDITIONS
[	3	]	QUAY FACILITY
[	4	]	TRESTLE
[	5	]	REVETMENT
[	6	]	RECLAMATION
[	7	]	SOIL IMPROVEMENT
[	8	]	DREDGING
[	9	]	YARD PAVEMENT
[	10	]	STORM WATER DRAINAGE
[	11	]	SECURITY FENCE, GATE AND CURB
[	12	]	LANDSCAPE
[	13	]	MARITIME'S SERVICES AREA
[	14	]	ACCESS ROAD
[	15	]	UTILITY WORKS

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**  
**PACKAGE 2 : CIVIL AND UTILITY WORKS**  
**VOLUME 4 : TENDER DRAWINGS**  
**LIST OF THE DRAWINGS (1)**

DWG NO.				TITLE OF DRAWING	DWG NO.				TITLE OF DRAWING
<b>1 GENERAL INFORMATION</b>									
PAC 2 -	TV -	GNR -	001	Location Map (1)	PAC 2 -	TV -	QAF -	029	Bars arrangement of beam TB2 [1]
PAC 2 -	TV -	GNR -	002	Location Map (2)	PAC 2 -	TV -	QAF -	030	Bars arrangement of beam TB2 [2]
PAC 2 -	TV -	GNR -	003	Project Control Co-ordinates	PAC 2 -	TV -	QAF -	031	Bars arrangement of beam TB2 [3]
PAC 2 -	TV -	GNR -	004	General Lay out for Thi Vai Terminal	PAC 2 -	TV -	QAF -	032	Bars arrangement of beam TB3 [1]
<b>2 SITE CONDITIONS</b>									
PAC 2 -	TV -	STC -	001	Soil Conditions of Thi Vai Area (1)	PAC 2 -	TV -	QAF -	033	Bars arrangement of beam TB3 [2]
PAC 2 -	TV -	STC -	002	Soil Conditions of Thi Vai Area (2)	PAC 2 -	TV -	QAF -	034	Bars arrangement of beam TB3 [3]
PAC 2 -	TV -	STC -	003	Sie Map of Thi Vai Area	PAC 2 -	TV -	QAF -	035	Bars arrangement of beam TB4 [1]
PAC 2 -	TV -	STC -	004	Topographic Survey Plan (1)	PAC 2 -	TV -	QAF -	036	Bars arrangement of beam TB4 [2]
PAC 2 -	TV -	STC -	005	Topographic Survey Plan (2)	PAC 2 -	TV -	QAF -	037	Bars arrangement of beam TB4 [3]
PAC 2 -	TV -	STC -	006	Topographic Survey Plan (3)	PAC 2 -	TV -	QAF -	038	Bars arrangement of beam CG1 [1]
PAC 2 -	TV -	STC -	007	Topographic Survey Plan (4)	PAC 2 -	TV -	QAF -	039	Bars arrangement of beam CG1 [2]
<b>3 QUAY FACILITY</b>									
PAC 2 -	TV -	QAF -	001	Plan and elevation [1]	PAC 2 -	TV -	QAF -	040	Bars arrangement of beam CG1 [3]
PAC 2 -	TV -	QAF -	002	Plan and elevation [2]	PAC 2 -	TV -	QAF -	041	Bars arrangement of beam CG2 [1]
PAC 2 -	TV -	QAF -	003	Detailed general plan [1]	PAC 2 -	TV -	QAF -	042	Bars arrangement of beam CG2 [2]
PAC 2 -	TV -	QAF -	004	Detailed general plan [2]	PAC 2 -	TV -	QAF -	043	Bars arrangement of beam CG2 [3]
PAC 2 -	TV -	QAF -	005	Detailed general plan [3]	PAC 2 -	TV -	QAF -	044	Bars arrangement of beam LB1 [1]
PAC 2 -	TV -	QAF -	006	Detailed general plan [4]	PAC 2 -	TV -	QAF -	045	Bars arrangement of beam LB1 [2]
PAC 2 -	TV -	QAF -	007	Detailed general plan [5]	PAC 2 -	TV -	QAF -	046	Bars arrangement of beam LB2 [1]
PAC 2 -	TV -	QAF -	008	Detailed general plan [6]	PAC 2 -	TV -	QAF -	047	Bars arrangement of beam LB2 [2]
PAC 2 -	TV -	QAF -	009	Detailed general plan [7]	PAC 2 -	TV -	QAF -	048	Bars arrangement of beam LB3 [1]
PAC 2 -	TV -	QAF -	010	Detailed general plan [8]	PAC 2 -	TV -	QAF -	049	Bars arrangement of beam LB3 [2]
PAC 2 -	TV -	QAF -	011	Typical cross section [1]	PAC 2 -	TV -	QAF -	050	Bars arrangement of slab type S1[1]
PAC 2 -	TV -	QAF -	012	Typical cross section [2]	PAC 2 -	TV -	QAF -	051	Bars arrangement of slab type S1[2]
PAC 2 -	TV -	QAF -	013	Typical cross section [3]	PAC 2 -	TV -	QAF -	052	Bars arrangement of slab type S1[3]
PAC 2 -	TV -	QAF -	014	Typical cross section [4]	PAC 2 -	TV -	QAF -	053	Bars arrangement of slab type S1[4]
PAC 2 -	TV -	QAF -	015	Typical cross section [5]	PAC 2 -	TV -	QAF -	054	Bars arrangement of slab type S2[1]
PAC 2 -	TV -	QAF -	016	Facility arrangement for crane [1]	PAC 2 -	TV -	QAF -	055	Bars arrangement of slab type S2[2]
PAC 2 -	TV -	QAF -	017	Facility arrangement for crane [2]	PAC 2 -	TV -	QAF -	056	Bars arrangement of slab type S2[3]
PAC 2 -	TV -	QAF -	018	Layout of beam for Block 1	PAC 2 -	TV -	QAF -	057	Bars arrangement of slab type S3
PAC 2 -	TV -	QAF -	019	Layout of beam for Block 2,3,6,7	PAC 2 -	TV -	QAF -	058	Bars arrangement of slab type S4
PAC 2 -	TV -	QAF -	020	Layout of beam for Block 4	PAC 2 -	TV -	QAF -	059	Bars arrangement of slab type S5
PAC 2 -	TV -	QAF -	021	Layout of beam for Block 5	PAC 2 -	TV -	QAF -	060	Bars arrangement of slab type S6
PAC 2 -	TV -	QAF -	022	Layout of beam for Block 8	PAC 2 -	TV -	QAF -	061	Bars arrangement of slab type S7
PAC 2 -	TV -	QAF -	023	Pile arrangement for Block 1	PAC 2 -	TV -	QAF -	062	Bars arrangement of slab type S8
PAC 2 -	TV -	QAF -	024	Pile arrangement for Block 2,3,4,5,6,7	PAC 2 -	TV -	QAF -	063	Bars arrangement of slab type S9
PAC 2 -	TV -	QAF -	025	Pile arrangement for Block 8	PAC 2 -	TV -	QAF -	064	Bars arrangement of slab type S10
PAC 2 -	TV -	QAF -	026	Bars arrangement of beam TB1 [1]	PAC 2 -	TV -	QAF -	065	Bars arrangement of slab type S11
PAC 2 -	TV -	QAF -	027	Bars arrangement of beam TB1 [2]	PAC 2 -	TV -	QAF -	066	Bars arrangement of slab type S12
PAC 2 -	TV -	QAF -	028	Bars arrangement of beam TB1 [3]	PAC 2 -	TV -	QAF -	067	Bars arrangement of fender slab for vessel
					PAC 2 -	TV -	QAF -	068	Bars arrangement of fender slab for barge
					PAC 2 -	TV -	QAF -	069	Structure of crane junction pit
					PAC 2 -	TV -	QAF -	070	Detail of pile head type 1 [1]
					PAC 2 -	TV -	QAF -	071	Detail of pile head type 1 [2]
					PAC 2 -	TV -	QAF -	072	Detail of pile head type 2 [1]

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**

**PACKAGE 2**

**LIST OF THE DRAWINGS (2)**

DWG NO.				TITLE OF DRAWING	DWG NO.				TITLE OF DRAWING
PAC 2 -	TV -	QAF -	073	Detail of pile head type 2 [2]	PAC 2 -	TV -	TRS -	007	Typical cross section of P.C I girder
PAC 2 -	TV -	QAF -	074	Detail of pile head type 3 [1]	PAC 2 -	TV -	TRS -	008	Cable arrangement of P.C I girder
PAC 2 -	TV -	QAF -	075	Detail of pile head type 3 [2]	PAC 2 -	TV -	TRS -	009	Reinforcement of P.C I beam
PAC 2 -	TV -	QAF -	076	Detail of pile head type 4 [1]	PAC 2 -	TV -	TRS -	010	Slab reinforcement of trestle 1 (1)
PAC 2 -	TV -	QAF -	077	Detail of pile head type 4 [2]	PAC 2 -	TV -	TRS -	011	Slab reinforcement of trestle 1 (2)
PAC 2 -	TV -	QAF -	078	Detail of pile head type 4 [3]	PAC 2 -	TV -	TRS -	012	Slab reinforcement of trestle 2 (1)
PAC 2 -	TV -	QAF -	079	Detail of pile head type 5 [1]	PAC 2 -	TV -	TRS -	013	Slab reinforcement of trestle 2 (2)
PAC 2 -	TV -	QAF -	080	Detail of pile head type 5 [2]	PAC 2 -	TV -	TRS -	014	Structure of corner beam 1 – Trestle 1
PAC 2 -	TV -	QAF -	081	Detail of pile head type 6 [1]	PAC 2 -	TV -	TRS -	015	Structure of corner beam 2 – Trestle 1
PAC 2 -	TV -	QAF -	082	Detail of pile head type 6 [2]	PAC 2 -	TV -	TRS -	016	Structure of sea side abutment – Trestle 1 (1)
PAC 2 -	TV -	QAF -	083	Detail of pile head type 7 [1]	PAC 2 -	TV -	TRS -	017	Structure of sea side abutment – Trestle 1 (2)
PAC 2 -	TV -	QAF -	084	Detail of pile head type 7 [2]	PAC 2 -	TV -	TRS -	018	Structure of sea side abutment – Trestle 1 (3)
PAC 2 -	TV -	QAF -	085	Detail of pile head type 8 [1]	PAC 2 -	TV -	TRS -	019	Structure of sea side abutment – Trestle 1 (4)
PAC 2 -	TV -	QAF -	086	Detail of pile head type 8 [2]	PAC 2 -	TV -	TRS -	020	Structure of land side abutment – Trestle 1 (1)
PAC 2 -	TV -	QAF -	087	Detail of pile head type 9 [1]	PAC 2 -	TV -	TRS -	021	Structure of land side abutment – Trestle 1 (2)
PAC 2 -	TV -	QAF -	088	Detail of pile head type 9 [2]	PAC 2 -	TV -	TRS -	022	Structure of land side abutment – Trestle 1 (3)
PAC 2 -	TV -	QAF -	089	Detail of steel pipe pile D=800mm,t=12mm	PAC 2 -	TV -	TRS -	023	Structure of bracing beam - Trestle 1
PAC 2 -	TV -	QAF -	090	Detail of steel pipe pile D=1000mm,t=12mm	PAC 2 -	TV -	TRS -	024	Structure of corner beam 1 – Trestle 2
PAC 2 -	TV -	QAF -	091	Detail of steel pipe pile D=1100mm,t=12mm	PAC 2 -	TV -	TRS -	025	Structure of corner beam 2 – Trestle 2
PAC 2 -	TV -	QAF -	092	Detail of F.R.P cover [1]	PAC 2 -	TV -	TRS -	026	Structure of sea side abutment – Trestle 2 (1)
PAC 2 -	TV -	QAF -	093	Detail of F.R.P cover [2]	PAC 2 -	TV -	TRS -	027	Structure of sea side abutment – Trestle 2 (2)
PAC 2 -	TV -	QAF -	094	Detail of F.R.P cover [3]	PAC 2 -	TV -	TRS -	028	Structure of sea side abutment – Trestle 2 (3)
PAC 2 -	TV -	QAF -	095	Detail of F.R.P cover [4]	PAC 2 -	TV -	TRS -	029	Structure of land side abutment – Trestle 2 (1)
PAC 2 -	TV -	QAF -	096	Detail of F.R.P cover [5]	PAC 2 -	TV -	TRS -	030	Structure of land side abutment – Trestle 2 (2)
PAC 2 -	TV -	QAF -	097	Detail of F.R.P cover [6]	PAC 2 -	TV -	TRS -	031	Structure of bracing beam - Trestle 2
PAC 2 -	TV -	QAF -	098	Detail of Anode protection	PAC 2 -	TV -	TRS -	032	Pile layout of trestle 1
PAC 2 -	TV -	QAF -	099	Detail of Rubber Fender for vessel	PAC 2 -	TV -	TRS -	033	Pile layout of trestle 2
PAC 2 -	TV -	QAF -	100	Detail of Rubber Fender for barge	PAC 2 -	TV -	TRS -	034	Structure of steel pile
PAC 2 -	TV -	QAF -	101	Detail of Bollard	PAC 2 -	TV -	TRS -	035	Structure of steel pile top (1)
PAC 2 -	TV -	QAF -	102	Detail of ladder [1]	PAC 2 -	TV -	TRS -	036	Structure of steel pile top (2)
PAC 2 -	TV -	QAF -	103	Detail of ladder [2]	PAC 2 -	TV -	TRS -	037	Detail of F.R.P cover (for steel pile)
PAC 2 -	TV -	QAF -	104	Detail of pavement & Kerb	PAC 2 -	TV -	TRS -	038	Detail of anode protection
PAC 2 -	TV -	QAF -	105	Detail of crane rail (1)	PAC 2 -	TV -	TRS -	039	Structure of P.C pile
PAC 2 -	TV -	QAF -	106	Detail of crane rail (2)	PAC 2 -	TV -	TRS -	040	Structure of P.C pile top (1)
PAC 2 -	TV -	QAF -	107	Detail of crane stopper, anchor socket and jack up plate	PAC 2 -	TV -	TRS -	041	Structure of P.C pile top (2)
PAC 2 -	TV -	QAF -	108	Detail of PC pile	PAC 2 -	TV -	TRS -	042	Detail of F.R.P cover (for P.C pile)
<b>4 TRESTLE</b>					<b>5 REVETMENT</b>				
PAC 2 -	TV -	TRS -	001	General layout	PAC 2 -	TV -	RVM -	001	General Plan
PAC 2 -	TV -	TRS -	002	Typical cross section	PAC 2 -	TV -	RVM -	002	Cross Section
PAC 2 -	TV -	TRS -	003	Beam layout of trestle 1					
PAC 2 -	TV -	TRS -	004	Cross sections of trestle 1	<b>6 RECLAMATION</b>				
PAC 2 -	TV -	TRS -	005	Beam layout of trestle 2	PAC 2 -	TV -	REC -	001	General Plan
PAC 2 -	TV -	TRS -	006	Cross sections of trestle 2	PAC 2 -	TV -	REC -	002	Cross Section

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**

**PACKAGE 2**

**LIST OF THE DRAWINGS (3)**

DWG NO.				TITLE OF DRAWING	DWG NO.				TITLE OF DRAWING
<b>7 SOIL IMPROVEMENT</b>					<b>13 MARITIME'S SERVICES AREA</b>				
PAC 2 -	TV -	SIP -	001	General Plan	PAC 2 -	TV -	MSA -	001	General Plan and Section for Pavement
PAC 2 -	TV -	SIP -	002	Cross Sections	PAC 2 -	TV -	MSA -	002	Plan and Typical Section of Pipe Culvert, U-Trench
PAC 2 -	TV -	SIP -	003	Plan of Geotextile Sheets	PAC 2 -	TV -	MSA -	003	Layout for Security Fence, Gate and Curb
PAC 2 -	TV -	SIP -	004	Horizontal Drainage System	PAC 2 -	TV -	MSA -	004	Details of Fence (1)
PAC 2 -	TV -	SIP -	005	Lateral Strip Drain	PAC 2 -	TV -	MSA -	005	Details of Fence (2)
PAC 2 -	TV -	SIP -	006	General Plan of DMM	PAC 2 -	TV -	MSA -	006	General Plan for Landscape
PAC 2 -	TV -	SIP -	007	Cross Section of DMM					
PAC 2 -	TV -	SIP -	008	Monitoring Plan	<b>14 ACCESS ROAD</b>				
PAC 2 -	TV -	SIP -	009	Monitoring Instruments	PAC 2 -	TV -	ACR -	001	General layout of Access Road to Thi Vai Terminal
<b>8 DEDGING</b>					PAC 2 -	TV -	ACR -	002	Typical cross section(1)
PAC 2 -	TV -	DRG -	001	General plan	PAC 2 -	TV -	ACR -	003	Typical cross section(2)
PAC 2 -	TV -	DRG -	002	Cross Section (1/4)	PAC 2 -	TV -	ACR -	004	Detail of Curb, Median and Pavement
PAC 2 -	TV -	DRG -	003	Cross Section (2/4)	PAC 2 -	TV -	ACR -	005	Co-ordinates of center line stakes
PAC 2 -	TV -	DRG -	004	Cross Section (3/4)	PAC 2 -	TV -	ACR -	006	Plan and Profile - Access road to Thi Vai Terminal
PAC 2 -	TV -	DRG -	005	Cross Section (4/4)	PAC 2 -	TV -	ACR -	007	Plan and Profile - Access ramp to Thi Vai Terminal
<b>9 YARD PAVEMENT</b>					PAC 2 -	TV -	ACR -	008	Plan and Profile of T-Junction
PAC 2 -	TV -	YPA -	001	General Plan of Elevation and Gradient	PAC 2 -	TV -	ACR -	009	Detailed cross section(1)
PAC 2 -	TV -	YPA -	002	General Plan of Yard Pavement	PAC 2 -	TV -	ACR -	010	Detailed cross section(2)
PAC 2 -	TV -	YPA -	003	Typical Cross Section of Yard Pavement	PAC 2 -	TV -	ACR -	011	Detailed cross section(3)
PAC 2 -	TV -	YPA -	004	Details of Equipment Yard and Fuel Station	PAC 2 -	TV -	ACR -	012	Detailed cross section(4)
PAC 2 -	TV -	YPA -	005	Traffic Plan and Marking	PAC 2 -	TV -	ACR -	013	Detailed cross section(5)
<b>10 STORM WATER DRAINAGE</b>					PAC 2 -	TV -	ACR -	014	Detailed cross section(6)
PAC 2 -	TV -	SWD -	001	General Plan of Open Culvert and Pipe Culvert	PAC 2 -	TV -	ACR -	015	Detailed cross section(7)
PAC 2 -	TV -	SWD -	002	General Plan of U-Trench	PAC 2 -	TV -	ACR -	016	Detailed cross section(8)
PAC 2 -	TV -	SWD -	003	Typical Section of Open Culvert and Details	PAC 2 -	TV -	ACR -	017	Detailed cross section(9)
PAC 2 -	TV -	SWD -	004	Longitudinal Profile of Open Culvert (1)	PAC 2 -	TV -	ACR -	018	Detailed cross section(10)
PAC 2 -	TV -	SWD -	005	Longitudinal Profile of Open Culvert (2)	PAC 2 -	TV -	ACR -	019	General plan of Soil Improvement works
PAC 2 -	TV -	SWD -	006	Typical Reinforcement of Open Culvert	PAC 2 -	TV -	ACR -	020	Geotechnical profile & cross section for access road
PAC 2 -	TV -	SWD -	007	Typical Section of Pipe Culvert, U-Trench and Details	PAC 2 -	TV -	ACR -	021	Geotechnical profile & cross section for access ramp
<b>11 SECURITY FENCE, GATE AND CURB</b>					PAC 2 -	TV -	ACR -	022	Plan of Monitoring
PAC 2 -	TV -	FGC -	001	General Layout for Security Fence, Gate and Curb	PAC 2 -	TV -	ACR -	023	General plan of longitudinal culvert
PAC 2 -	TV -	FGC -	002	Details of Fence	PAC 2 -	TV -	ACR -	024	Detail of Inlet, Outlet(1)
PAC 2 -	TV -	FGC -	003	Details of Fence and Curb	PAC 2 -	TV -	ACR -	025	Detail of Inlet, Outlet(2)
PAC 2 -	TV -	FGC -	004	Layout and Details of Sliding Gate	PAC 2 -	TV -	ACR -	026	General plan of light and electric post.
<b>12 LANDSCAPE</b>					PAC 2 -	TV -	ACR -	027	General layout of sign & marking
PAC 2 -	CM -	LAS -	001	General Plan	PAC 2 -	TV -	ACR -	028	Detail of Road Signs & post
					PAC 2 -	TV -	ACR -	029	Detail of road marking
					PAC 2 -	TV -	ACR -	030	Construction sequence of Soil Improvement
					<b>15 UTILITY WORKS</b>				
					PAC 2 -	TV -	UTY -	E - 0 - 001	General Notes and Legend
					PAC 2 -	TV -	UTY -	E - 1 - 001	Power Supply Single Line Diagrams (1/3)
					PAC 2 -	TV -	UTY -	E - 1 - 002	Power Supply Single Line Diagrams (2/3)

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**

**PACKAGE 2**

**LIST OF THE DRAWINGS (4)**

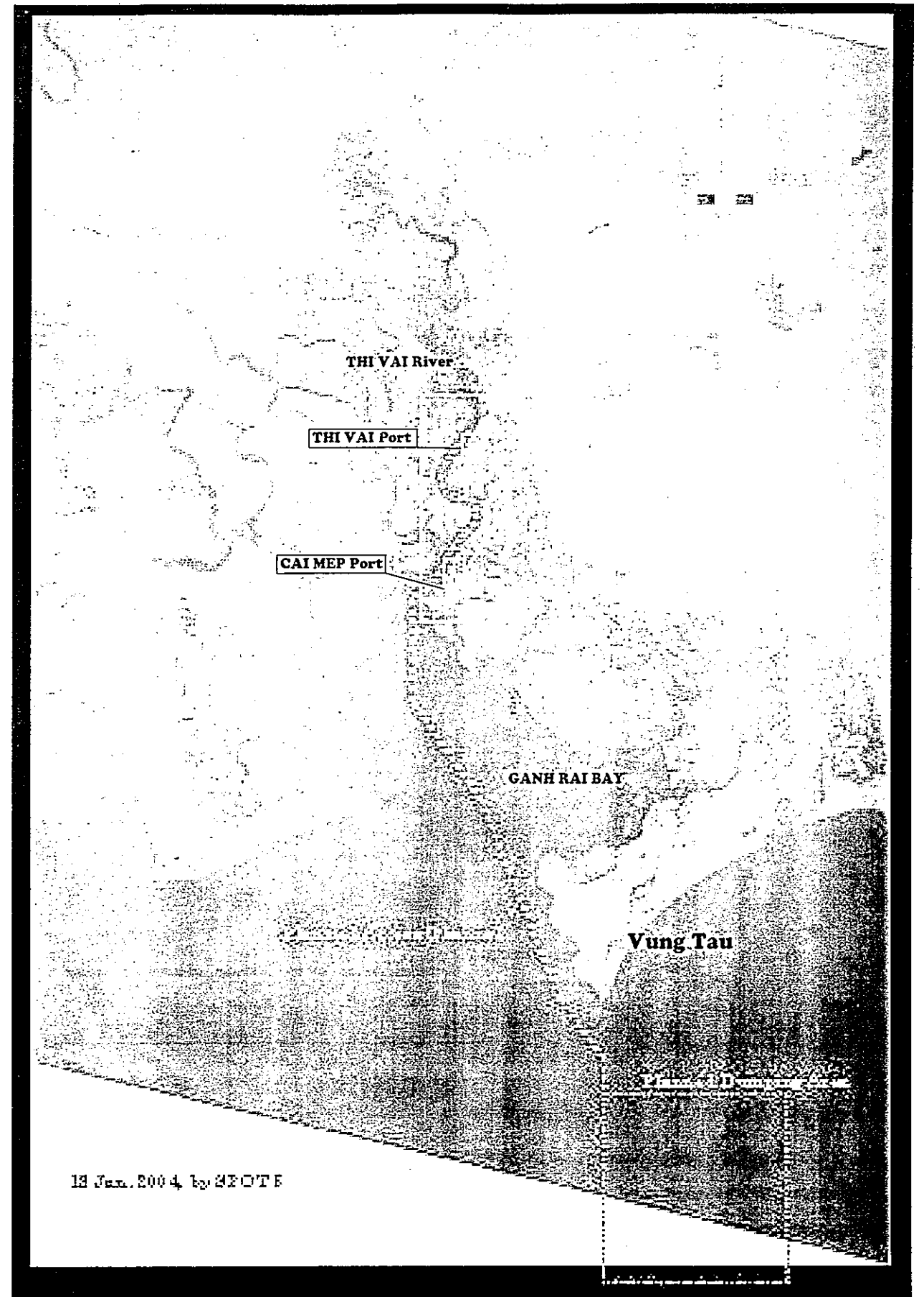
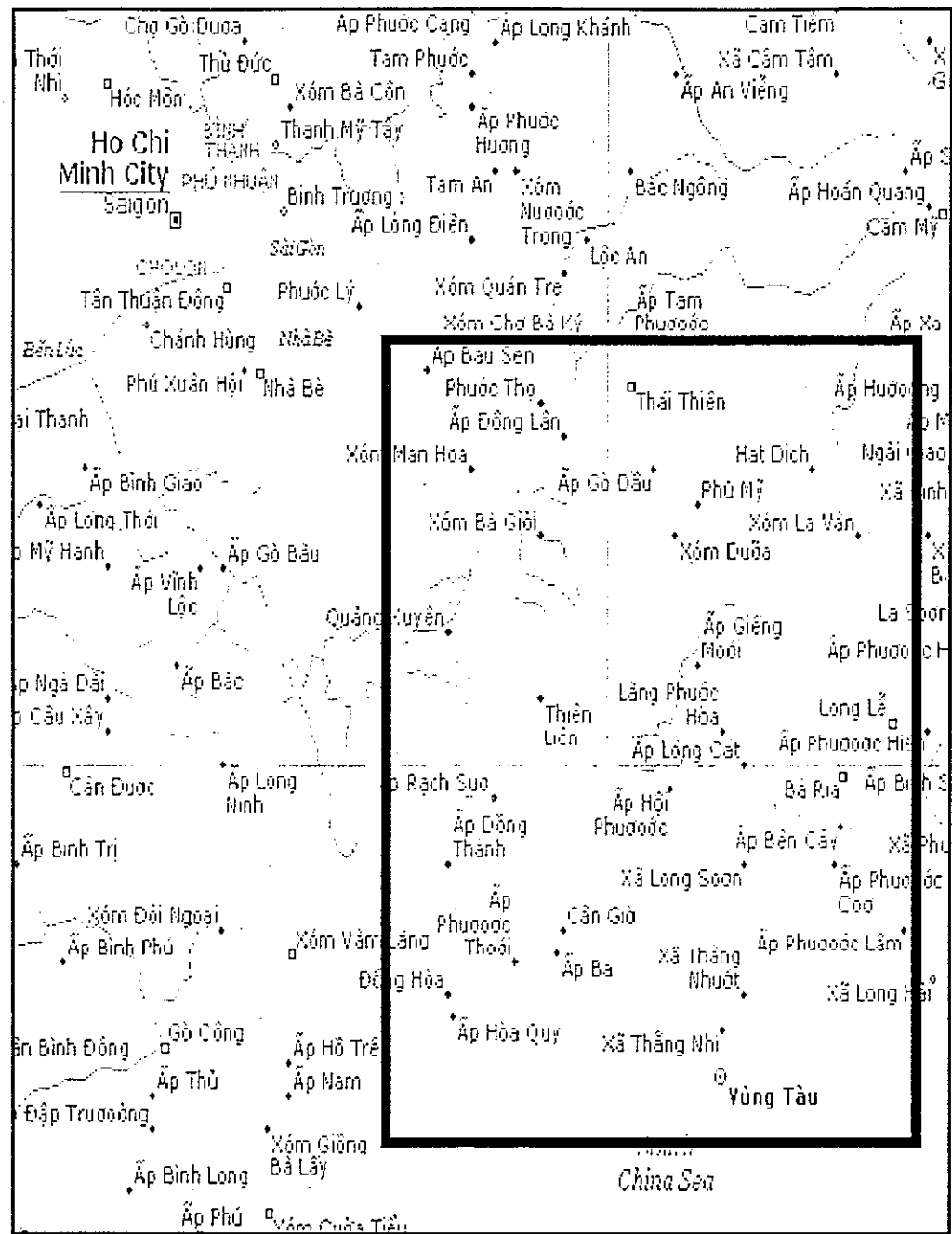
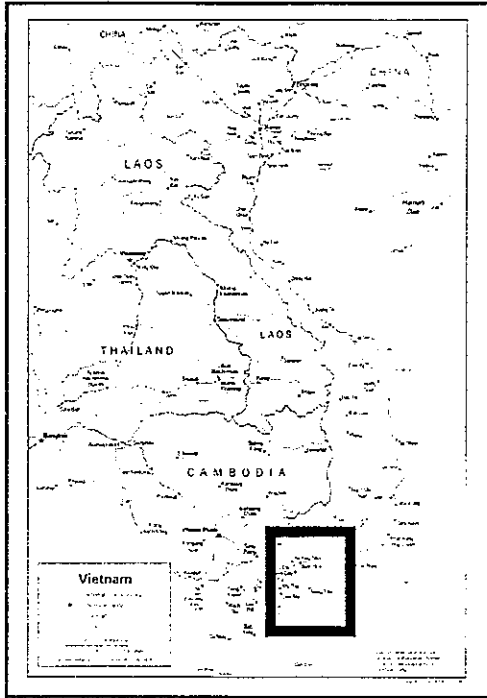
DWG NO.				TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING
PAC 2 -	TV -	UTY -	E - 1 - 003	Power Supply Single Line Diagrams (3/3)		
PAC 2 -	TV -	UTY -	E - 1 - 004	Compact Substation Single Line Diagrams		
PAC 2 -	TV -	UTY -	E - 1 - 005	Substation Equipment Layout		
PAC 2 -	TV -	UTY -	E - 1 - 006	Container Terminal Power Layout		
PAC 2 -	TV -	UTY -	E - 1 - 007	Communication Layout		
PAC 2 -	TV -	UTY -	E - 1 - 008	Socket Outlet Board Schedule		
PAC 2 -	TV -	UTY -	E - 1 - 009	Electrical Cable Trench Details		
PAC 2 -	TV -	UTY -	E - 1 - 010	Electrical Manhole and Handhole		
PAC 2 -	TV -	UTY -	E - 1 - 011	Power Supply Single Line Diagram for PMB Main Office		
PAC 2 -	TV -	UTY -	E - 1 - 012	Exterior Lighting Layout for PMB Main Office		
PAC 2 -	TV -	UTY -	E - 2 - 001	General Cargo Terminal Lighting Layout		
PAC 2 -	TV -	UTY -	E - 2 - 002	Yard Lighting Panel Schedule (1/2)		
PAC 2 -	TV -	UTY -	E - 2 - 003	Yard Lighting Panel Schedule (2/2)		
PAC 2 -	TV -	UTY -	E - 2 - 004	Detail of Road Light Pole		
PAC 2 -	TV -	UTY -	E - 2 - 005	Detail of High Mast Light Pole		
PAC 2 -	TV -	UTY -	U - 1 - 001	System Diagram		
PAC 2 -	TV -	UTY -	U - 1 - 002	System Layout for Terminal (1)		
PAC 2 -	TV -	UTY -	U - 1 - 003	System Layout for Terminal (2)		
PAC 2 -	TV -	UTY -	U - 1 - 004	System Layout for PMB Main Office		
PAC 2 -	TV -	UTY -	U - 1 - 005	Details of Water Tank and Pump Room (Pumps & Piping)		
PAC 2 -	TV -	UTY -	U - 1 - 006	Details of Water Tank and Pump Room (Structure)		
PAC 2 -	TV -	UTY -	U - 1 - 007	Details of Water Tank and Pump Room (Electricity)		
PAC 2 -	TV -	UTY -	U - 1 - 008	Details of Water Valve		
PAC 2 -	TV -	UTY -	U - 1 - 009	Countermeasure of Ground Subsidence		
PAC 2 -	TV -	UTY -	U - 1 - 010	Fountain System of PMB Main Office		
PAC 2 -	TV -	UTY -	U - 2 - 001	System Layout for Terminal (1)		
PAC 2 -	TV -	UTY -	U - 2 - 002	System Layout for Terminal (2)		
PAC 2 -	TV -	UTY -	U - 2 - 003	System Layout for Terminal (3)		
PAC 2 -	TV -	UTY -	U - 2 - 004	System Layout for Terminal (4)		
PAC 2 -	TV -	UTY -	U - 2 - 005	System Layout for PMB Main Office		
PAC 2 -	TV -	UTY -	U - 2 - 006	Grease Trap - Gasoline Trap		
PAC 2 -	TV -	UTY -	U - 2 - 007	Details of Trench and Pit Cover - Countermeasure of Ground Subsidence		
PAC 2 -	TV -	UTY -	U - 2 - 008	Details of Crane Electric Pit		
PAC 2 -	TV -	UTY -	U - 2 - 009	Septic Tank System (1)		
PAC 2 -	TV -	UTY -	U - 2 - 010	Layout and Section for Septic Tank (1)		
PAC 2 -	TV -	UTY -	U - 2 - 011	Septic Tank System (2)		
PAC 2 -	TV -	UTY -	U - 2 - 012	Layout and Section for Septic Tank (2)		

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT  
PACKAGE 2 : GENERAL - SITE CONDITIONS**

**LIST OF THE DRAWINGS**

[1] GENERAL INFORMATION , [2 ] SITE CONDITION

DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING
<b>1 GENERAL INFORMATION</b>			
PAC2- TV- GNR- 001	Location Map (1)		
PAC2- TV- GNR- 002	Location Map (2)		
PAC2- TV- GNR- 003	Project Control Co-ordinates		
PAC2- TV- GNR- 004	General Lay out for Thi Vai Terminal		
<b>2 SITE CONDITIONS</b>			
PAC2- TV- STC- 001	Soil Conditions of Thi Vai Area (1)		
PAC2- TV- STC- 002	Soil Conditions of Thi Vai Area (2)		
PAC2- TV- STC- 003	Site Map of Thi Vai Area		
PAC2- TV- STC- 004	Topographic Survey Plan (1)		
PAC2- TV- STC- 005	Topographic Survey Plan (2)		
PAC2- TV- STC- 006	Topographic Survey Plan (3)		
PAC2- TV- STC- 007	Topographic Survey Plan (4)		
		1	PAC2- TV- GNR- < GENERAL INFORMATION >
		2	PAC2- TV- STC- < SITE CONDITIONS >



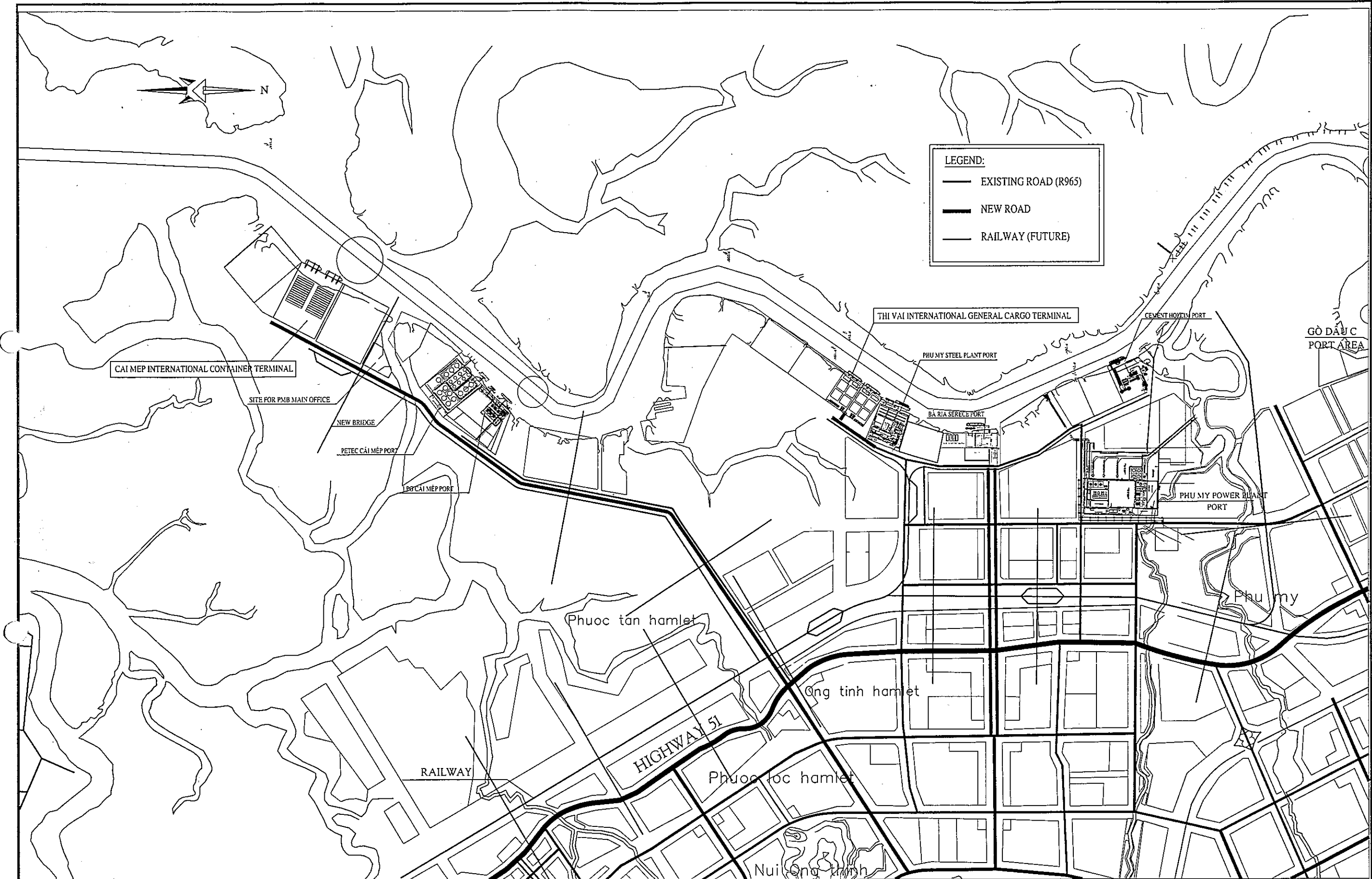
18 Jan. 2004 by SPOTF

					<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: SASAKI <i>LL</i> DRAWN BY: PHAM HUY PHUC <i>PH</i> CHECKED BY: NAGAO N. <i>N</i> APPROVED BY: NAGAI K. <i>N</i> ISSUE DATE: 30/9/2005 SCALE: SCALE		SECTION: GENERAL SUB-SECTION: GENERAL INFORMATION TITLE OF DRAWING: LOCATION MAP (1) DWG NO: PAC2-TV-GNR-001 REV. NO	
					JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA					
REV NO	DATE	DESCRIPTION	BY	APP								



**LEGEND:**

- EXISTING ROAD (R965)
- NEW ROAD
- RAILWAY (FUTURE)



THE SOCIALIST REPUBLIC OF VIETNAM  
 MINISTRY OF TRANSPORT  
 PROJECT MANAGEMENT UNIT 85

**JICA**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 ASSIGNED TO:  
 JAPAN PORT CONSULTANT (JPC)  
**PCIC**  
 PACIFIC CONSULTANTS INTERNATIONAL (PCI)  
 INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

CAI MEP - THI VAI INTERNATIONAL PORT  
 CONSTRUCTION PROJECT

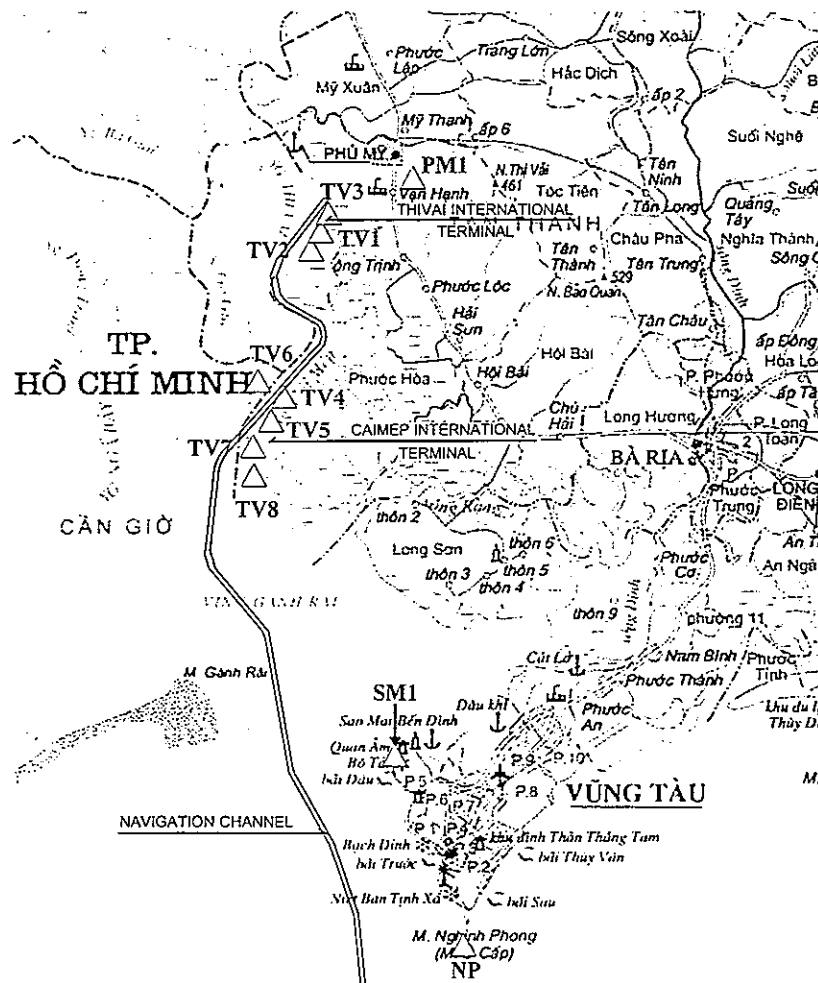
PACKAGE 2  
 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR  
 THI VAI AREA

DESIGNED BY: SASAKI, E  
 DRAWN BY: PHAM HUY PHUC  
 CHECKED BY: NAGAO N.  
 APPROVED BY: NAGAI K.  
 ISSUE DATE: 30/SEP/2005  
 SCALE: SCALE

SECTION: GENERAL  
 SUB-SECTION: GENERAL INFORMATION  
 TITLE OF DRAWING: LOCATION MAP (2)  
 DWG NO: PAC2-TV-GNR-002

REV. NO

POSITION OF BENCHMARKS

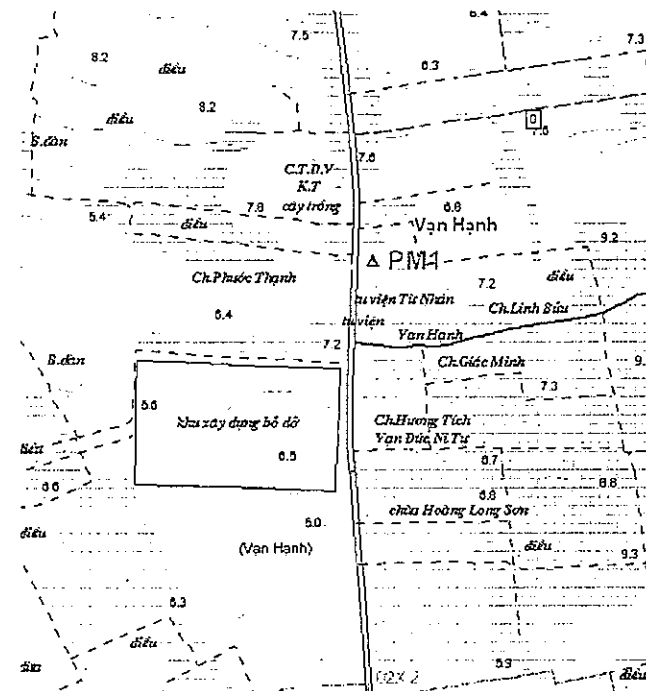


Coordinates and Elevations of Points from PM1 - NP in HN72

Points	Coordinates		Elevations	
	North(m)	East(m)	N.D.L(m)	C.D.L(m)
PM1	1,171,185.447	615,512.871	+7.253	+10.140
TV1	1,169,573.669	612,123.619	+1.421	+4.308
TV2	1,169,369.136	612,160.321	+1.244	+4.131
TV3	1,169,737.613	612,323.073	+1.387	+4.274
TV4	1,162,637.410	610,827.286	+0.899	+3.786
TV5	1,162,211.435	610,580.021	+0.857	+3.744
TV6	1,163,493.298	610,265.073	+1.276	+4.163
TV7	1,161,513.112	609,642.152	+0.684	+3.571
TV8	1,160,169.856	609,990.140	+0.630	+3.517
SM1	1,148,267.990	615,615.487	+8.862	+11.749
NP	1,141,733.116	618,652.043	+31.709	+34.596

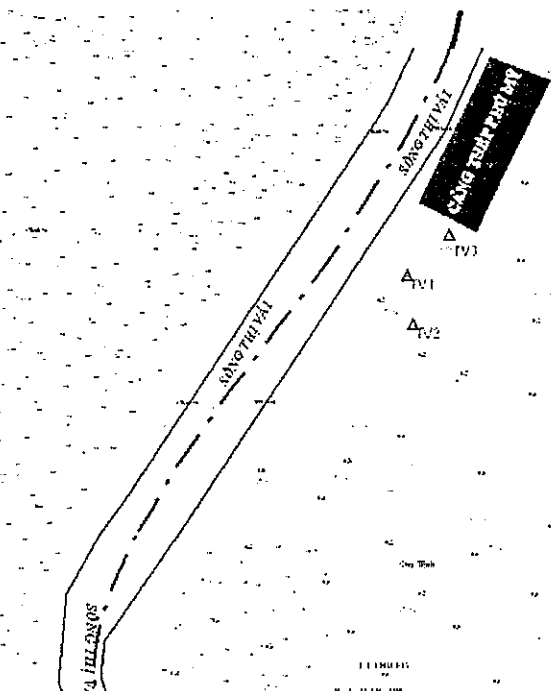
NOTE: C.D.L is applied for the Project

BENCHMARK: PM1



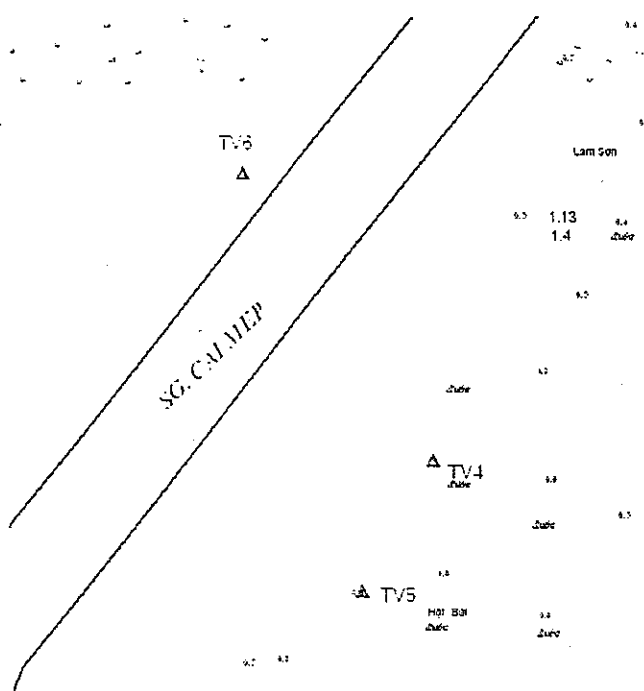
Locate in the opposite side of Phu My Industrial Zone, near National Road 51.

BENCHMARK: TV-1, TV-2, TV-3



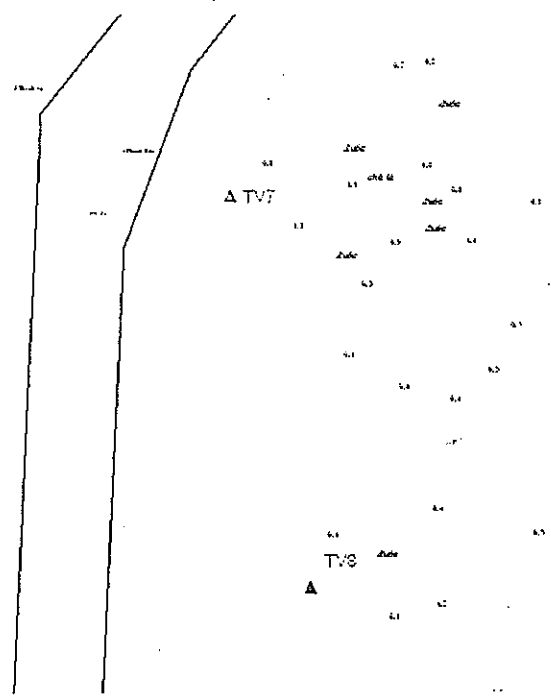
TV3: locate next to Phu My Steel Plant Port.  
TV1: locate downstream, 250m far from TV3.  
TV2: locate downstream, 200m far from TV1.

BENCHMARK: TV-4, TV-5, TV-6



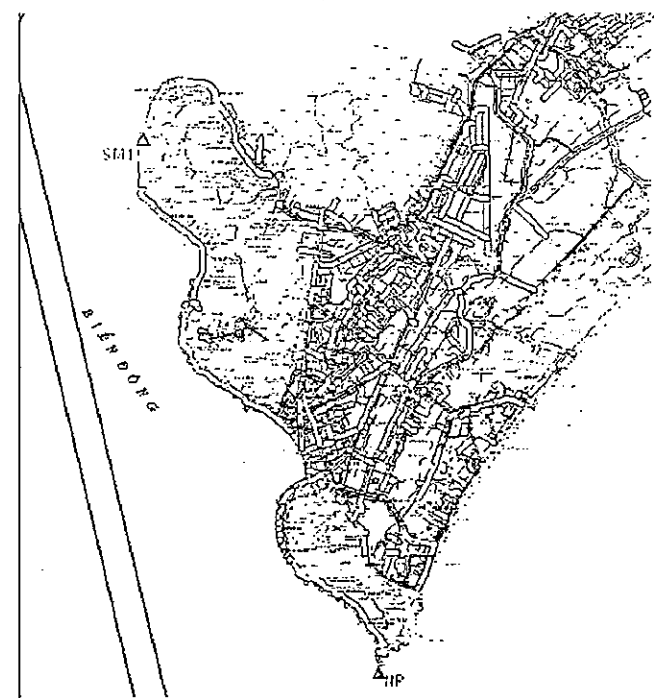
TV6: locate next a small canal.  
TV4, TV5: locate at Phuoc Hoa commune, Tan Thanh district, Ba Ria - Vung Tau Province.

BENCHMARK: TV-7, TV-8

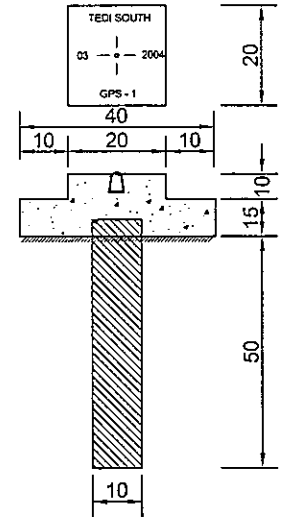


TV7, TV8: locate at Phuoc Hoa commune, Tan Thanh district, Ba Ria - Vung Tau province.

BENCHMARK: SM-1, NP



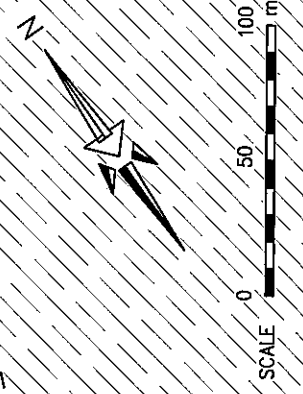
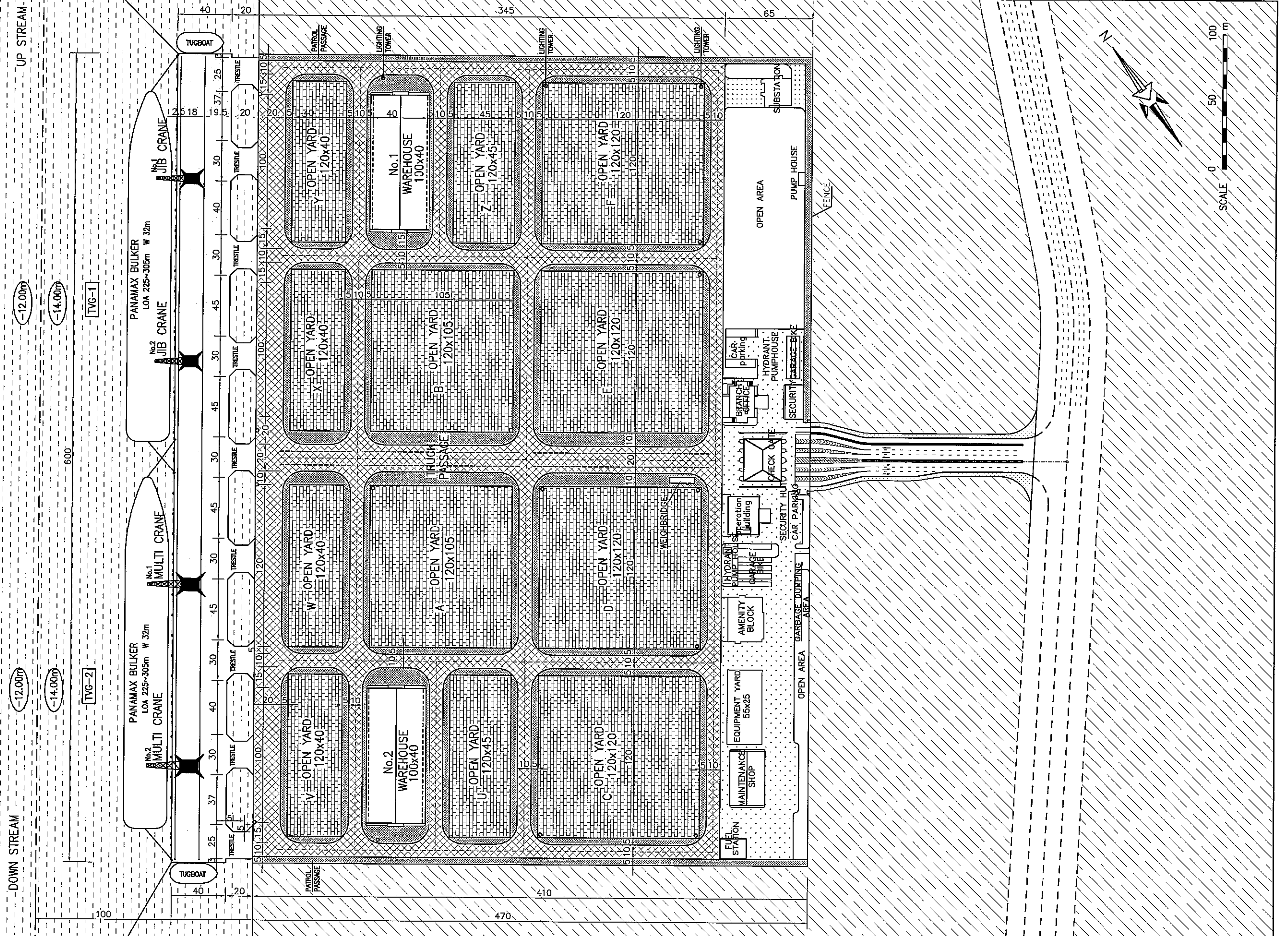
SM1: locate at Sao Mai cape, Vung Tau city.  
NP: locate at Nghinh Phong cape, Vung Tau city.



BENCHMARK  
(Concrete benchmark, dimension is 30x30x15cm)

<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>				<p>CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT</p>		<p>DESIGNED BY: SASAKI E DRAWN BY: PHAM HUY PHUC CHECKED BY: NAGAI K. APPROVED BY: NAGAI K. ISSUE DATE: 30/SEP/2005 SCALE: SCALE</p>		<p>SECTION: GENERAL SUB-SECTION: GENERAL INFORMATION TITLE OF DRAWING: PROJECT CONTROL COORDINATES DWG NO: PAC2-TV-GNR-003 REV. NO</p>	
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>				<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>					
REV NO	DATE	DESCRIPTION	BY	APP					

GENERAL LAYOUT  
THI VAI INTERNATIONAL GENERAL CARGO TERMINAL



THE SOCIALIST REPUBLIC OF VIETNAM  
MINISTRY OF TRANSPORT  
PROJECT MANAGEMENT UNIT 85

JICA  
JAPAN INTERNATIONAL COOPERATION AGENCY  
ASSIGNED TO:  
JAPAN PORT CONSULTANT (JPC)  
PACIFIC CONSULTANTS INTERNATIONAL (PCI)  
INTERNATIONAL DEVELOPMENT SYSTEM (IDS)

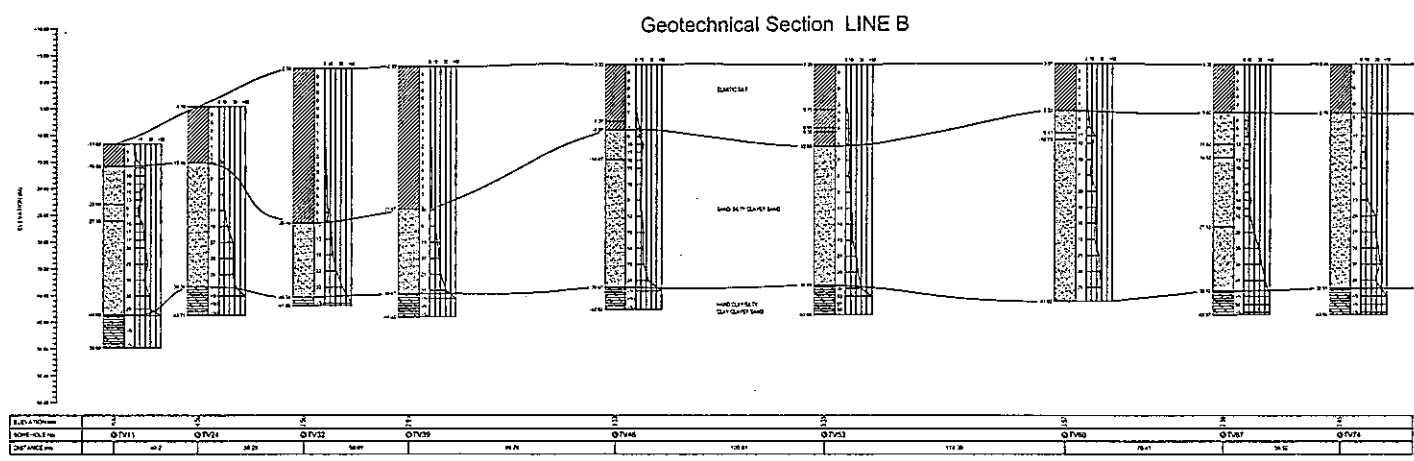
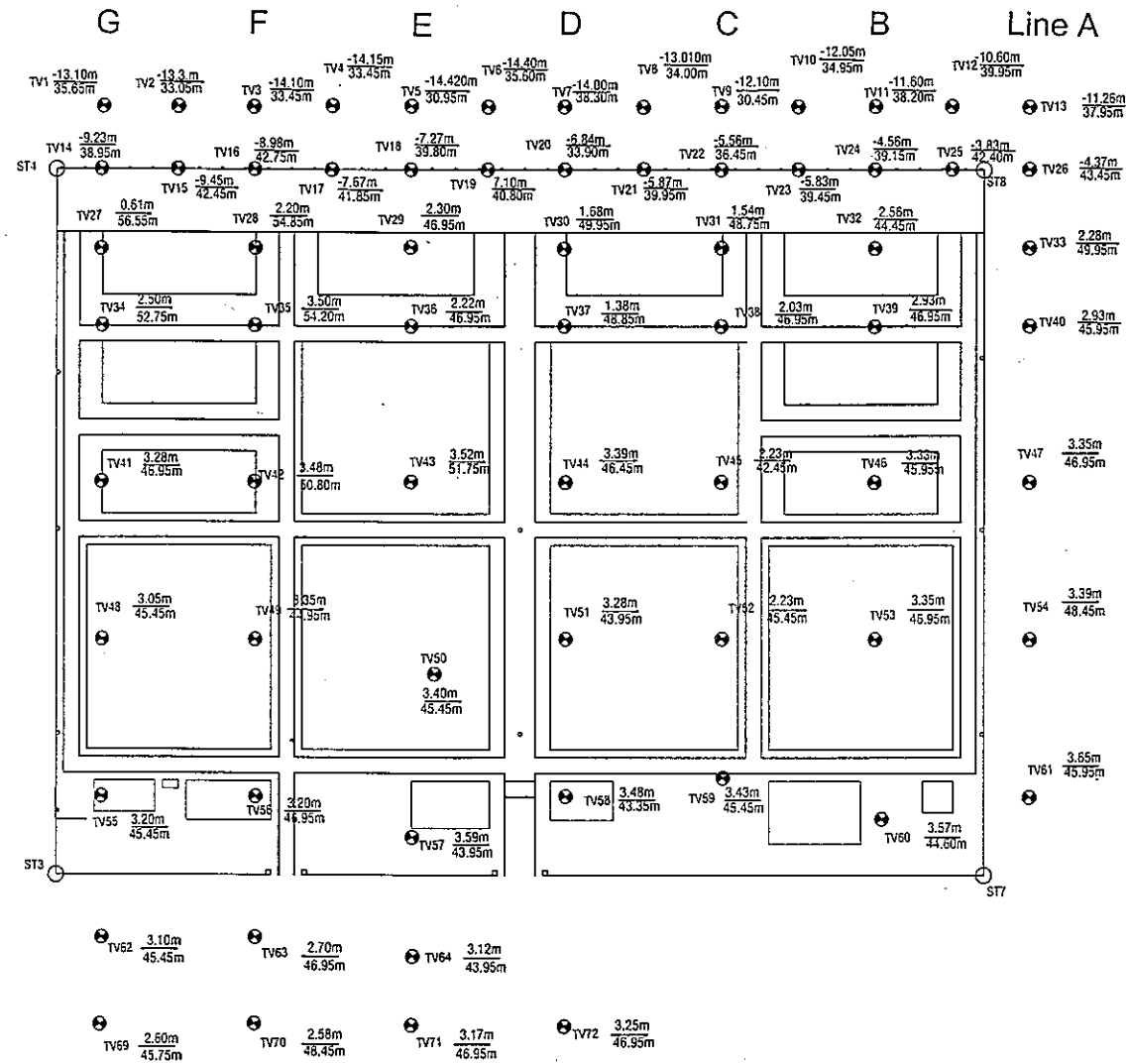
CAI MEP - THI VAI INTERNATIONAL PORT  
CONSTRUCTION PROJECT

PACKAGE 2  
CONSTRUCTION OF PORT FACILITIES AND BUILDINGS  
THI VAI AREA

DESIGNED BY: GONDA K.  
DRAWN BY: MAI THI HONG THAO  
CHECKED BY: NAGAO N.  
APPROVED BY: NAGAO K.  
ISSUE DATE: 30/JUL/2005  
SCALE: SCALE

SECTION: GENERAL  
SUB-SECTION: GENERAL INFORMATION  
TITLE OF DRAWING: GENERAL LAYOUT FOR THI VAI TERMINAL  
DWG NO: PAC2-TV-GNR-004  
REV. NO

REV NO	DATE	DESCRIPTION	BY	APP

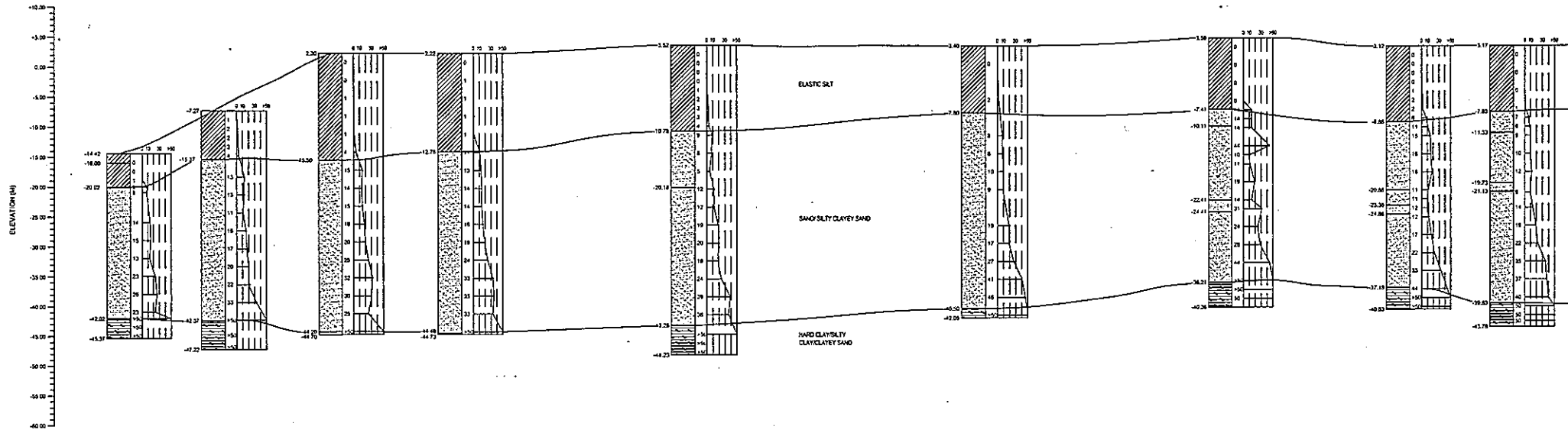


LEGEND

- Blank area: FILL
- Diagonal hatching: SAND
- Horizontal hatching: SAND ON SAND
- Vertical hatching: SAND ON SAND
- Stippled area: SAND ON SAND

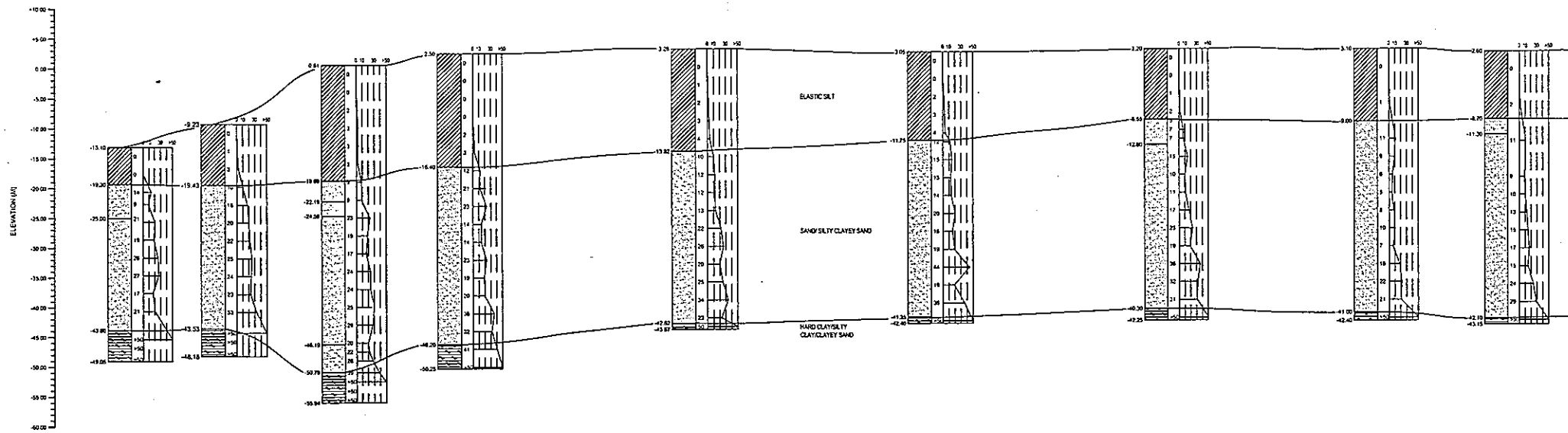
<p align="center"><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT  CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: SAKALE</p> <p>DRAWN BY: PHAM HUY PHUC</p> <p>CHECKED BY: NAGAO N.</p> <p>APPROVED BY: NAGAO K.</p> <p>ISSUE DATE: 30/9/2005</p> <p>SCALE: SCALE</p>		<p>SECTION: GENERAL</p> <p>SUB-SECTION: SITE CONDITIONS</p> <p>TITLE OF DRAWING: SOIL CONDITIONS OF THI VAI AREA (1)</p> <p>DWG NO: PAC2-TV-STC-001</p> <p>REV. NO</p>	
<p align="center">JICA  <b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>  ASSIGNED TO:  <b>JAPAN PORT CONSULTANT (JPC)</b>  <b>PACIFIC CONSULTANTS INTERNATIONAL (PCI)</b>  <b>INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</b></p>					<p align="center">PACKAGE2  CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR  THI VAI AREA</p>					
REV NO	DATE	DESCRIPTION	BY	APP						

Geotechnical Section LINE E



ELEVATION (m)	10	25	30	32	35	40	45	50	55	60	65	70
BOREHOLE No.	TV3	TV18	TV29	TV35	TV43	TV50	TV57	TV64	TV71			
DISTANCE (m)	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0

Geotechnical Section LINE G

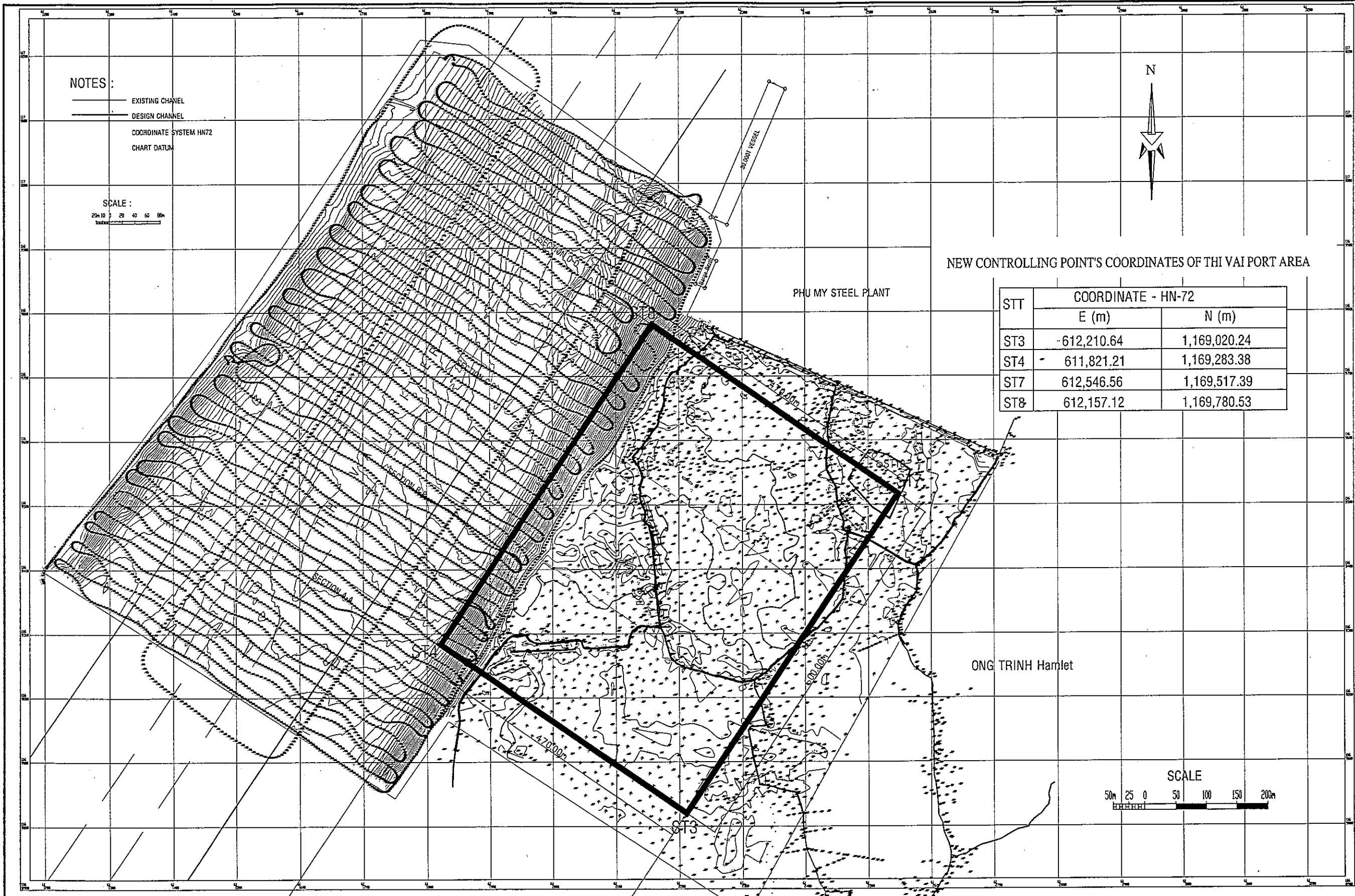


ELEVATION (m)	10	25	30	32	35	40	45	50	55	60	65	70
BOREHOLE No.	TV1	TV14	TV27	TV34	TV41	TV48	TV55	TV62	TV69			
DISTANCE (m)	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0

LEGEND

- Elastic SILT
- SAND SILTY CLAYEY SAND
- HARD CLAYEY SILTY CLAY CLAYEY SAND

<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>                  MINISTRY OF TRANSPORT                  PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT                  CONSTRUCTION PROJECT</p>					<p>DESIGNED BY: SASAKI                  DRAWN BY: PHAM HUY PHUC                  CHECKED BY: NAGAO N.                  APPROVED BY: NAGAI K.                  ISSUE DATE: 30/9/2005                  SCALE: SCALE</p>		<p>SECTION: GENERAL                  SUB-SECTION: SITE CONDITIONS                  TITLE OF DRAWING: SOIL CONDITIONS OF THI VAI AREA (2)                  DWG NO: PAC2-TV-STC-002                  REV. NO</p>	
<p>JICA                  JAPAN INTERNATIONAL COOPERATION AGENCY                  JAPAN PORT CONSULTANT (JPC)                  PACIFIC CONSULTANTS INTERNATIONAL (PCI)                  INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE2                  CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR                  THI VAI AREA</p>								
REV NO	DATE	DESCRIPTION	BY	APP									



NOTES :

- EXISTING CHANNEL
- DESIGN CHANNEL
- COORDINATE SYSTEM HN72
- CHART DATUM

SCALE :  
 20 40 60 80m

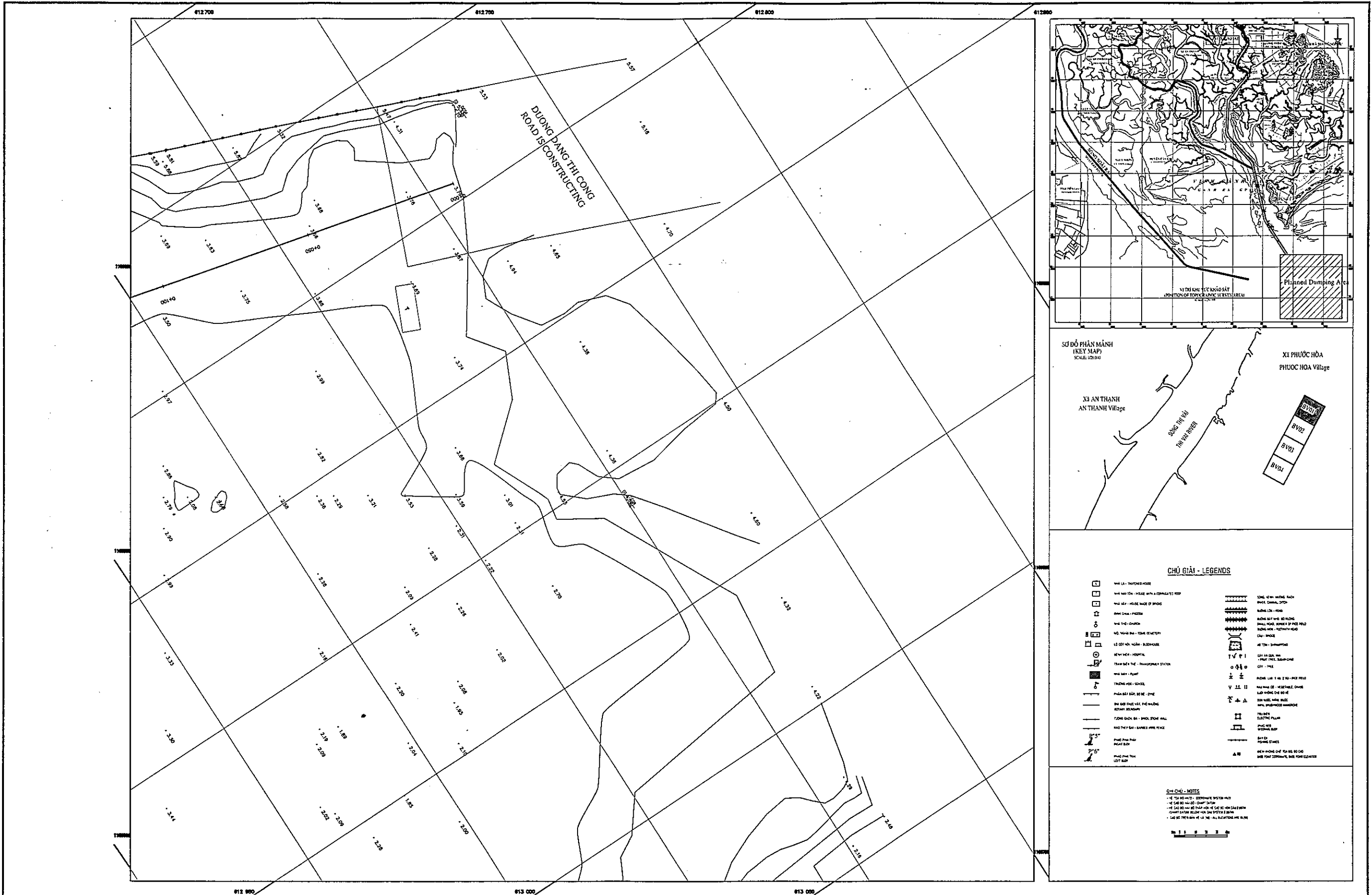


NEW CONTROLLING POINT'S COORDINATES OF THI VAI PORT AREA

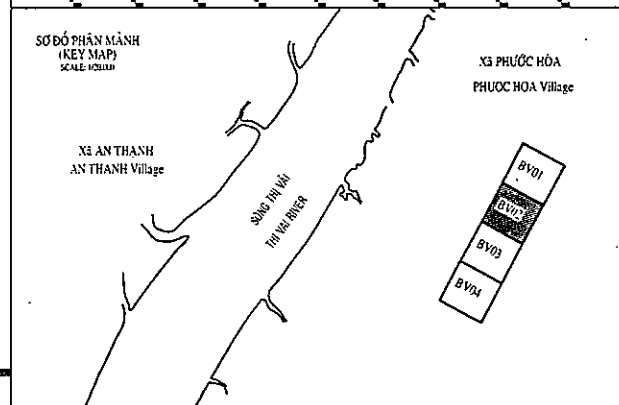
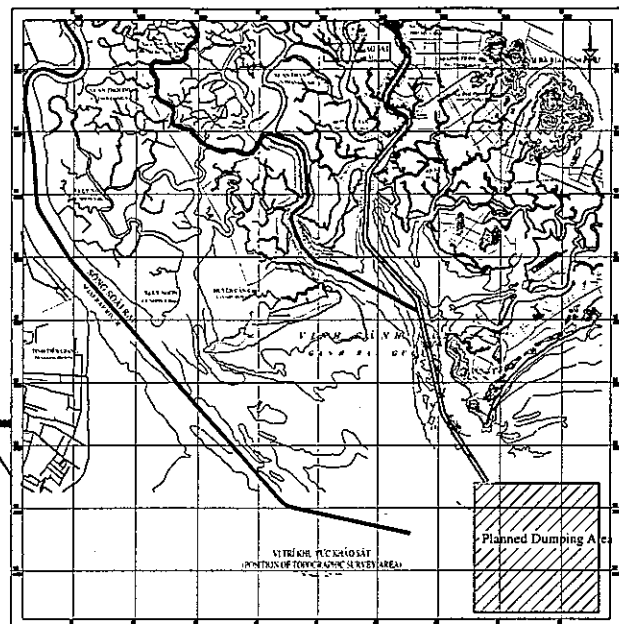
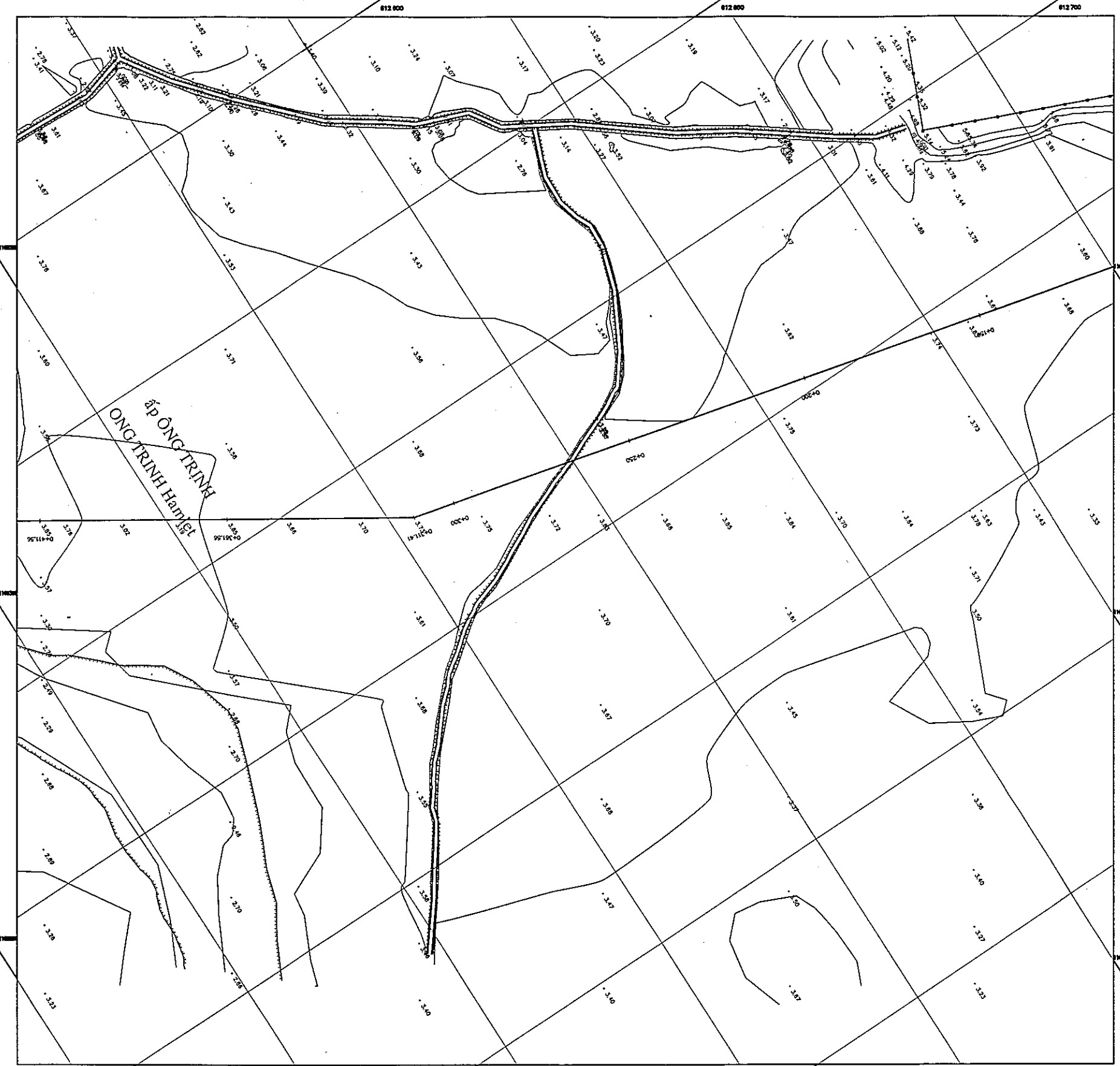
STT	COORDINATE - HN-72	
	E (m)	N (m)
ST3	-612,210.64	1,169,020.24
ST4	611,821.21	1,169,283.38
ST7	612,546.56	1,169,517.39
ST8	612,157.12	1,169,780.53

SCALE  
 50m 25 0 50 100 150 200m

<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					<b>CAI MEP - THI VAI INTERNATIONAL PORT</b> CONSTRUCTION PROJECT					DESIGNED BY: SASAKI E. <i>Linh</i> DRAWN BY: PHAM HUY PHUC D. <i>Phu</i> CHECKED BY: NAGAI N. <i>Ngai</i> APPROVED BY: NAGAI K. <i>Ngai</i> ISSUE DATE: 30/9/2005 SCALE: SCALE		SECTION: GENERAL SUB-SECTION: SITE CONDITIONS TITLE OF DRAWING: SITE MAP OF THI VAI AREA DWG NO: PAC2-TV-STC-003		REV. NO
JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					<b>PACKAGE2</b> CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA									
REV NO	DATE	DESCRIPTION	BY	APP										



<p align="center"><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>					<p align="center"><b>CAI MEP - THI VAI INTERNATIONAL PORT</b>  <b>CONSTRUCTION PROJECT</b></p>					<p>DESIGNED BY: SASAKI</p> <p>DRAWN BY: PHAM HUY PHUC</p> <p>CHECKED BY: NGUYEN CAO N.</p> <p>APPROVED BY: NGUYEN K.</p> <p>ISSUE DATE: 30/09/2003</p> <p>SCALE: SCALE</p>		<p>SECTION: GENERAL</p> <p>SUB-SECTION: SITE CONDITIONS</p> <p>TITLE OF DRAWING: TOPOGRAPHIC SURVEY PLAN (1)</p> <p>DWG NO: PAC2-TV-STC-004</p> <p>REV. NO:</p>	
<p align="center"><b>JICA</b>  <b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>          ASSIGNED TO:  <b>JAPAN PORT CONSULTANT (JPC)</b>  <b>PACIFIC CONSULTANTS INTERNATIONAL (PCI)</b>  <b>INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</b></p>					<p align="center"><b>PACKAGE 2</b>  <b>CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR</b>  <b>THI VAI AREA</b></p>								
REV NO	DATE	DESCRIPTION	BY	APP									



**CHỮ GIẢI - LEGENDS**

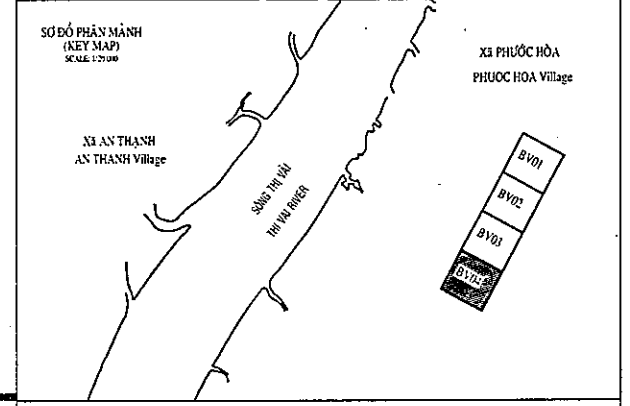
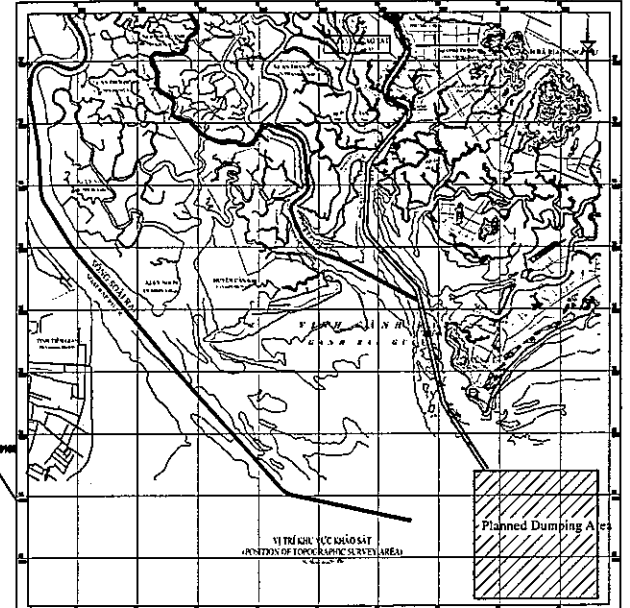
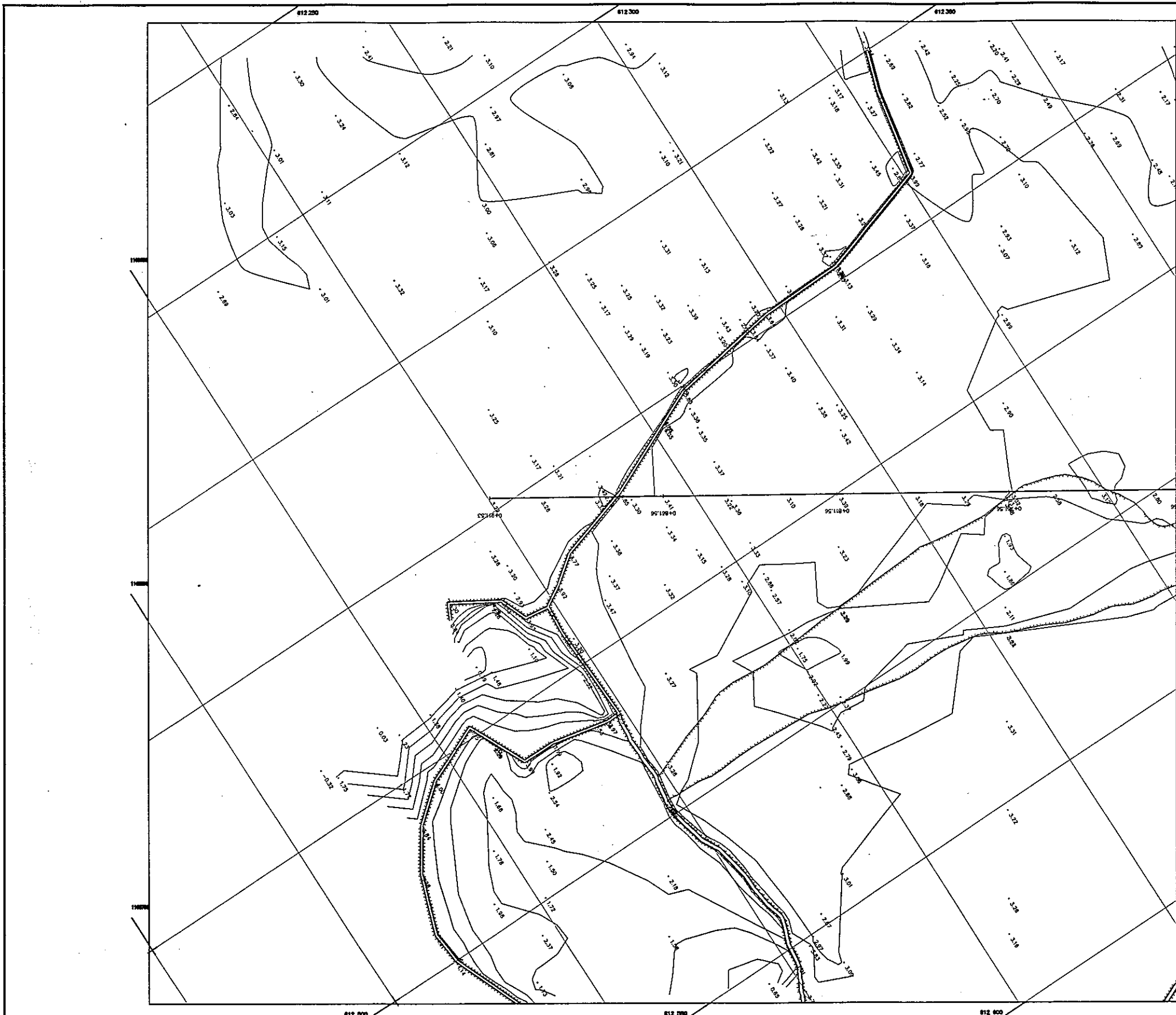
	ĐƯỜNG LƯU THUYẾT		ĐƯỜNG LƯU THUYẾT
	ĐƯỜNG LƯU THUYẾT CÓ DRAINAGE		ĐƯỜNG LƯU THUYẾT CÓ ĐỘ CAO ĐIỂM
	ĐƯỜNG LƯU THUYẾT CÓ DRAINAGE		ĐƯỜNG LƯU THUYẾT CÓ ĐỘ CAO ĐIỂM
	ĐƯỜNG LƯU THUYẾT CÓ DRAINAGE		ĐƯỜNG LƯU THUYẾT CÓ ĐỘ CAO ĐIỂM
	ĐƯỜNG LƯU THUYẾT CÓ DRAINAGE		ĐƯỜNG LƯU THUYẾT CÓ ĐỘ CAO ĐIỂM

**CHỮ CHỈ - NOTES**

- TOÀN BỘ BẢN VẼ - CÔNG VIỆC ĐƯỢC THỰC HIỆN
- CÁC ĐIỂM ĐỘ CAO ĐIỂM ĐƯỢC CHỈ ĐỊNH
- CÁC ĐIỂM ĐỘ CAO ĐIỂM ĐƯỢC CHỈ ĐỊNH
- CÁC ĐIỂM ĐỘ CAO ĐIỂM ĐƯỢC CHỈ ĐỊNH
- CÁC ĐIỂM ĐỘ CAO ĐIỂM ĐƯỢC CHỈ ĐỊNH

<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85			<b>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</b>  <b>PACKAGE 2</b> <b>CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</b>		DESIGNED BY: SASAKI DRAWN BY: PHAM HUY PHUC CHECKED BY: NGAO N. APPROVED BY: NAGAI K. ISSUE DATE: 30/9/2005 SCALE: SCALE	SECTION: GENERAL SUB-SECTION: SITE CONDITIONS TITLE OF DRAWING: TOPOGRAPHIC SUYVEY PLAN (2) DWG NO: PAC2-TV-STC-005 REV. NO:
JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)	REV NO DATE DESCRIPTION BY APP					





**CHỮ GIẢI - LEGENDS**

☐ NHÀ LÀ - THATCHED HOUSE	☐ NHÀ MÀI TÊN - HOUSE WITH A CORRUGATED ROOF	☐ NHÀ SÁY - HOUSE MADE OF BRICKS	☐ ĐÌNH CHÙA - PAGODA	☐ NHÀ CHÙ - CHURCH	☐ MỘ, NGHĨA ĐÀ - TOMB, CEMETERY	☐ LÒ CỐT NÓC, NẤM - BLOODKILN	☐ BỆNH VIỆN - HOSPITAL	☐ TRẠM BIẾN THÉ - TRANSFORMER STATION	☐ NHÀ MÁY - PLANT	☐ TRƯỜNG HỌC - SCHOOL	☐ PHẠO GIẤY BẮP, NỒ BÉ - DYKE	☐ NHÀ ĐÓNG THẠC VẬT, THỦ MƯỜNG BỆNH BỒNGHAT	☐ TƯỜNG GẠCH, ĐÁ - BRICK, STONE WALL	☐ RÀO THÉP CHÀ - BARBED WIRE FENCE	☐ PHẠO PHẢI PHẢI NHỎ BỤY	☐ PHẠO PHẢI TRÁI LỚT BỤY	☐ SÔNG, KÊNH, HẠNG, BẠCH RIVER, CANAL, DITCH	☐ ĐƯỜNG LỚN - ROAD	☐ ĐƯỜNG ĐỂ MỎ, NỒ RỪNG SMALL ROAD, BORDER OF RICE FIELD	☐ ĐƯỜNG MỎN - FOOTPATH ROAD	☐ CẦU - BRIDGE	☐ AO TÔM - SWAMPING	☐ CÂY ỚT QUẢ LỬA - FIRE TREE, SUGAR-CANE	☐ CÂY - TREE	☐ RỪNG LỬA 1 VÀ 2 VỤ - RICE FIELD	☐ RỪNG MÀU CỎ - VEGETABLE, GRASS	☐ LƯU KHÓNG CHÈ ĐỎ VÈ ĐỎ MÈC, MÀU ĐỎ CỎ	☐ TRỤ ĐỐC ĐIỆN THỰC MÀU	☐ PHẠO MỎ ĐÓNG MỎ BỤY	☐ PHẠO CẮT	☐ ĐỂM KHÔNG CHÈ TỌA ĐỘ ĐỒ CHẠO
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**CHỮ CHỈ - NOTES**

- HỆ TỌA ĐỘ UTM - COORDINATE SYSTEM UTM
- HỆ CAO ĐỘ MẶT ĐỒ - CHỈ SỐ ĐẪM
- HỆ CAO ĐỘ MẶT ĐỒ PHÁP - HỆ CAO ĐỘ MẶT ĐỒ 1928M
- CHỈ SỐ ĐỘ MẶT ĐỒ - CHỈ SỐ ĐỘ MẶT ĐỒ 1928M
- CAO ĐỘ TRÊN BÀN VẼ LƯU LỬA - ALL ELEVATIONS ARE IN RM

SCALE 1:500

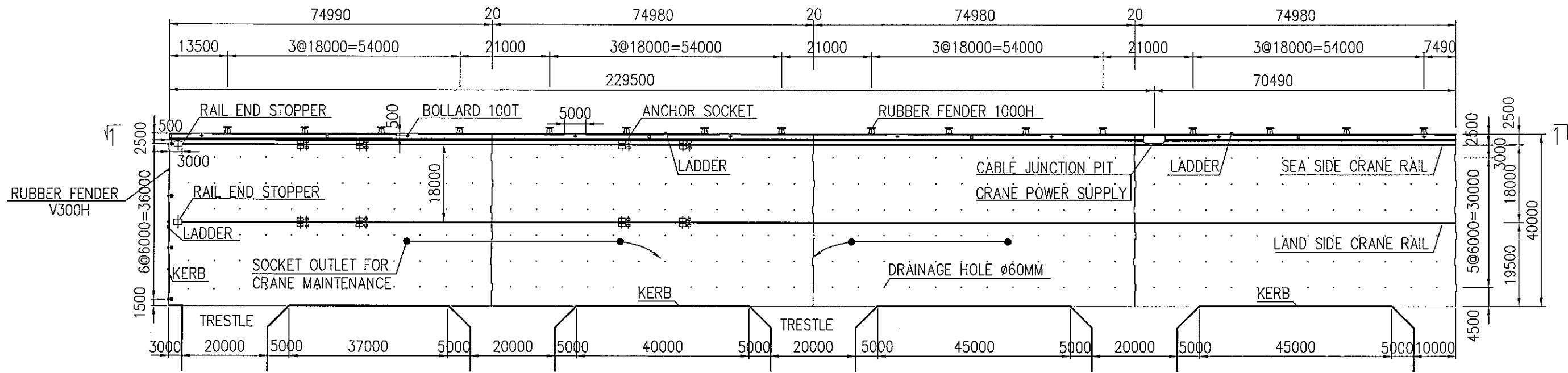
<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>				<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>				<p>DESIGNER: SAKI DRAWN BY: PHAM HUY PHUC CHECKED BY: NAGAO N. APPROVED BY: NAGAO K. ISSUE DATE: 30/9/2005 SCALE: SCALE</p>		<p>SECTION: GENERAL SUB-SECTION: SITE CONDITIONS TITLE OF DRAWING: TOPOGRAPHIC SUYVEY PLAN (4) DWG NO: PAC2-TV-STC-007</p>		REV. NO
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>				<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>				<p>SCALE</p>		<p>REV. NO</p>		
REV. NO	DATE	DESCRIPTION	BY	APP								

**CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT**  
**PACKAGE 2 : CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA**  
**VOLUME IV : BID DRAWINGS - CIVIL AND UTILITY WORKS -**  
**LIST OF THE DRAWINGS**

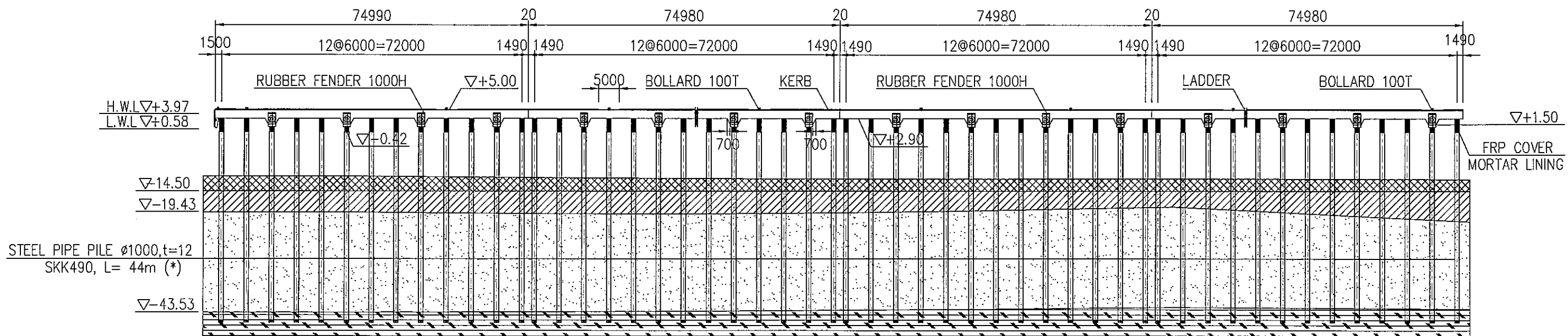
[3] QUAY FACILITY

DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING	DWG NO.	TITLE OF DRAWING
PAC2-TV-QAF-001	Plan and elevation [1]	PAC2-TV-QAF-049	Bars arrangement of beam LB3 [2]	PAC2-TV-QAF-097	Detail of F.R.P cover [6]
PAC2-TV-QAF-002	Plan and elevation [2]	PAC2-TV-QAF-050	Bars arrangement of slab type S1[1]	PAC2-TV-QAF-098	Detail of Anode protection
PAC2-TV-QAF-003	Detailed general plan [1]	PAC2-TV-QAF-051	Bars arrangement of slab type S1[2]	PAC2-TV-QAF-099	Detail of Rubber Fender for vessel
PAC2-TV-QAF-004	Detailed general plan [2]	PAC2-TV-QAF-052	Bars arrangement of slab type S1[3]	PAC2-TV-QAF-100	Detail of Rubber Fender for barge
PAC2-TV-QAF-005	Detailed general plan [3]	PAC2-TV-QAF-053	Bars arrangement of slab type S1[4]	PAC2-TV-QAF-101	Detail of Bollard
PAC2-TV-QAF-006	Detailed general plan [4]	PAC2-TV-QAF-054	Bars arrangement of slab type S2[1]	PAC2-TV-QAF-102	Detail of ladder [1]
PAC2-TV-QAF-007	Detailed general plan [5]	PAC2-TV-QAF-055	Bars arrangement of slab type S2[2]	PAC2-TV-QAF-103	Detail of ladder [2]
PAC2-TV-QAF-008	Detailed general plan [6]	PAC2-TV-QAF-056	Bars arrangement of slab type S2[3]	PAC2-TV-QAF-104	Detail of pavement & Kerb
PAC2-TV-QAF-009	Detailed general plan [7]	PAC2-TV-QAF-057	Bars arrangement of slab type S3	PAC2-TV-QAF-105	Detail of crane rail (1)
PAC2-TV-QAF-010	Detailed general plan [8]	PAC2-TV-QAF-058	Bars arrangement of slab type S4	PAC2-TV-QAF-106	Detail of crane rail (2)
PAC2-TV-QAF-011	Typical cross section [1]	PAC2-TV-QAF-059	Bars arrangement of slab type S5	PAC2-TV-QAF-107	Detail of crane stopper, anchor socket and jack up plate
PAC2-TV-QAF-012	Typical cross section [2]	PAC2-TV-QAF-060	Bars arrangement of slab type S6	PAC2-TV-QAF-108	Detail of PC pile
PAC2-TV-QAF-013	Typical cross section [3]	PAC2-TV-QAF-061	Bars arrangement of slab type S7		
PAC2-TV-QAF-014	Typical cross section [4]	PAC2-TV-QAF-062	Bars arrangement of slab type S8		
PAC2-TV-QAF-015	Typical cross section [5]	PAC2-TV-QAF-063	Bars arrangement of slab type S9		
PAC2-TV-QAF-016	Facility arrangement for crane [1]	PAC2-TV-QAF-064	Bars arrangement of slab type S10		
PAC2-TV-QAF-017	Facility arrangement for crane [2]	PAC2-TV-QAF-065	Bars arrangement of slab type S11		
PAC2-TV-QAF-018	Layout of beam for Block 1	PAC2-TV-QAF-066	Bars arrangement of slab type S12		
PAC2-TV-QAF-019	Layout of beam for Block 2,3,6,7	PAC2-TV-QAF-067	Bars arrangement of fender slab for vessel		
PAC2-TV-QAF-020	Layout of beam for Block 4	PAC2-TV-QAF-068	Bars arrangement of fender slab for barge		
PAC2-TV-QAF-021	Layout of beam for Block 5	PAC2-TV-QAF-069	Structure of crane junction pit		
PAC2-TV-QAF-022	Layout of beam for Block 8	PAC2-TV-QAF-070	Detail of pile head type 1 [1]		
PAC2-TV-QAF-023	Pile arrangement for Block 1	PAC2-TV-QAF-071	Detail of pile head type 1 [2]		
PAC2-TV-QAF-024	Pile arrangement for Block 2,3,4,5,6,7	PAC2-TV-QAF-072	Detail of pile head type 2 [1]		
PAC2-TV-QAF-025	Pile arrangement for Block 8	PAC2-TV-QAF-073	Detail of pile head type 2 [2]		
PAC2-TV-QAF-026	Bars arrangement of beam TB1 [1]	PAC2-TV-QAF-074	Detail of pile head type 3 [1]		
PAC2-TV-QAF-027	Bars arrangement of beam TB1 [2]	PAC2-TV-QAF-075	Detail of pile head type 3 [2]		
PAC2-TV-QAF-028	Bars arrangement of beam TB1 [3]	PAC2-TV-QAF-076	Detail of pile head type 4 [1]		
PAC2-TV-QAF-029	Bars arrangement of beam TB2 [1]	PAC2-TV-QAF-077	Detail of pile head type 4 [2]		
PAC2-TV-QAF-030	Bars arrangement of beam TB2 [2]	PAC2-TV-QAF-078	Detail of pile head type 4 [3]		
PAC2-TV-QAF-031	Bars arrangement of beam TB2 [3]	PAC2-TV-QAF-079	Detail of pile head type 5 [1]		
PAC2-TV-QAF-032	Bars arrangement of beam TB3 [1]	PAC2-TV-QAF-080	Detail of pile head type 5 [2]		
PAC2-TV-QAF-033	Bars arrangement of beam TB3 [2]	PAC2-TV-QAF-081	Detail of pile head type 6 [1]		
PAC2-TV-QAF-034	Bars arrangement of beam TB3 [3]	PAC2-TV-QAF-082	Detail of pile head type 6 [2]		
PAC2-TV-QAF-035	Bars arrangement of beam TB4 [1]	PAC2-TV-QAF-083	Detail of pile head type 7 [1]		
PAC2-TV-QAF-036	Bars arrangement of beam TB4 [2]	PAC2-TV-QAF-084	Detail of pile head type 7 [2]		
PAC2-TV-QAF-037	Bars arrangement of beam TB4 [3]	PAC2-TV-QAF-085	Detail of pile head type 8 [1]		
PAC2-TV-QAF-038	Bars arrangement of beam CG1 [1]	PAC2-TV-QAF-086	Detail of pile head type 8 [2]		
PAC2-TV-QAF-039	Bars arrangement of beam CG1 [2]	PAC2-TV-QAF-087	Detail of pile head type 9 [1]		
PAC2-TV-QAF-040	Bars arrangement of beam CG1 [3]	PAC2-TV-QAF-088	Detail of pile head type 9 [2]		
PAC2-TV-QAF-041	Bars arrangement of beam CG2 [1]	PAC2-TV-QAF-089	Detail of steel pipe pile D=800mm,t=12mm		
PAC2-TV-QAF-042	Bars arrangement of beam CG2 [2]	PAC2-TV-QAF-090	Detail of steel pipe pile D=1000mm,t=12mm		
PAC2-TV-QAF-043	Bars arrangement of beam CG2 [3]	PAC2-TV-QAF-091	Detail of steel pipe pile D=1100mm,t=12mm		
PAC2-TV-QAF-044	Bars arrangement of beam LB1 [1]	PAC2-TV-QAF-092	Detail of F.R.P cover [1]		
PAC2-TV-QAF-045	Bars arrangement of beam LB1 [2]	PAC2-TV-QAF-093	Detail of F.R.P cover [2]		
PAC2-TV-QAF-046	Bars arrangement of beam LB2 [1]	PAC2-TV-QAF-094	Detail of F.R.P cover [3]		
PAC2-TV-QAF-047	Bars arrangement of beam LB2 [2]	PAC2-TV-QAF-095	Detail of F.R.P cover [4]		
PAC2-TV-QAF-048	Bars arrangement of beam LB3 [1]	PAC2-TV-QAF-096	Detail of F.R.P cover [5]		

# GENERAL PLAN AND LONGITUDINAL SECTION (1)



PLAN OF BLOCK 1,2,3,4 SC=1/1000



LONGITUDINAL SECTION 1-1  
SC=1/1000

LEGENDS:

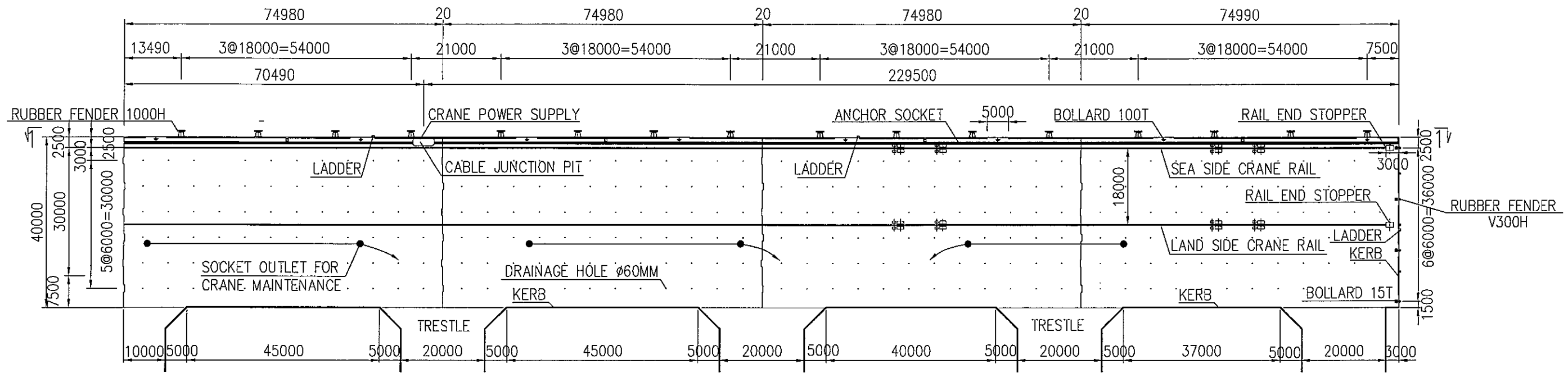
- DREDGING
- ELASTIC SILT
- SAND/ SILTY CLAYEY SAND
- HARD CLAY/SILTY CLAY/CLAYEY SAND

NOTES:

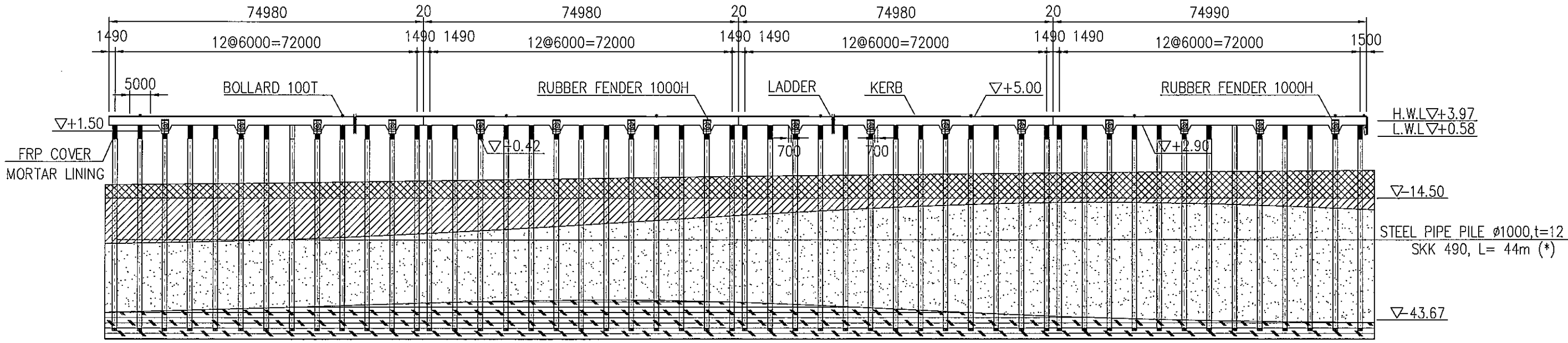
- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\* ) PILE LENGTH IS REFERENCE ONLY

<p>THE SOCIALIST REPUBLIC OF VIETNAM MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>			<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: BUI AN LOC</p>			<p>SECTION: CIVIL WORKS</p>		
<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p>			<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>			<p>DRAWN BY: NGUYEN T. K. DIEM</p>			<p>SUB-SECTION: QUAY FACILITY</p>		
<p>JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>			<p>ISSUE DATE: 15/SEP/2005</p>			<p>CHECKED BY: YOSHIDA Y.</p>			<p>TITLE OF DRAWING: PLAN AND ELEVATION [1]</p>		
<p>DESCRIPTION</p>			<p>BY</p>			<p>APP</p>			<p>DWG NO: PAC2 - TV - QAF -001</p>		
						<p>SCALE: 1/1000</p>			<p>REV. NO</p>		

### GENERAL PLAN AND LONGITUDINAL SECTION (2)



### PLAN OF BLOCK 5,6,7,8 SC=1/1000



### LONGITUDINAL SECTION 1-1 SC=1/1000

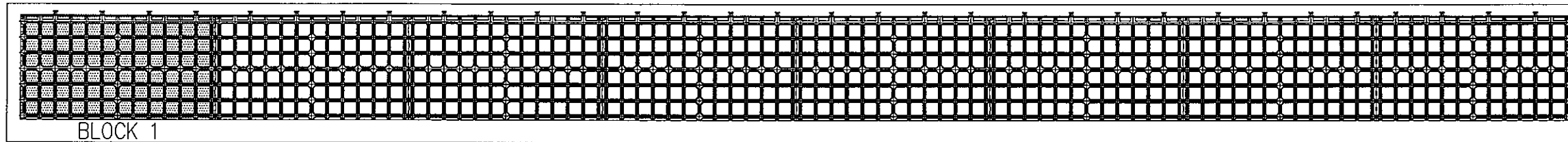
#### LEGENDS:

- DREDGING
- ELASTIC SILT
- SAND/ SILTY CLAYEY SAND
- HARD CLAY/SILTY CLAY/CLAYEY SAND

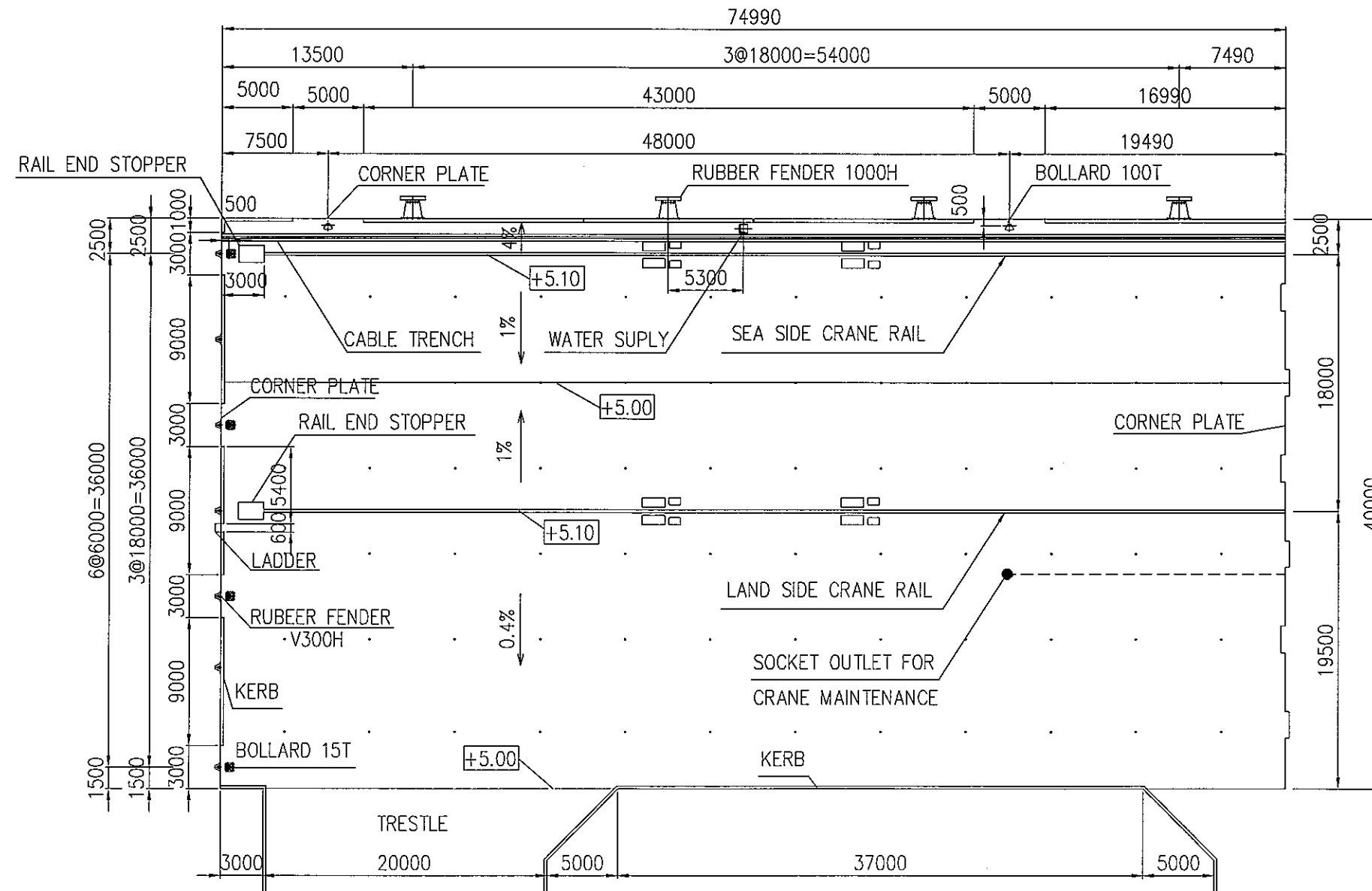
#### NOTES:

- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] -- CHART DATUM
- (\* ) PILE LENGTH IS REFERENCE ONLY

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
		JAPAN INTERNATIONAL COOPERATION AGENCY JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
						CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: PLAN AND ELEVATION [2]	
						APPROVED BY: NAGAI K.		DWG NO: PAC2 - TV - QAF -002	
						ISSUE DATE: 15/SEP/2005		REV. NO	
						SCALE: 1/1000			



KEY PLAN

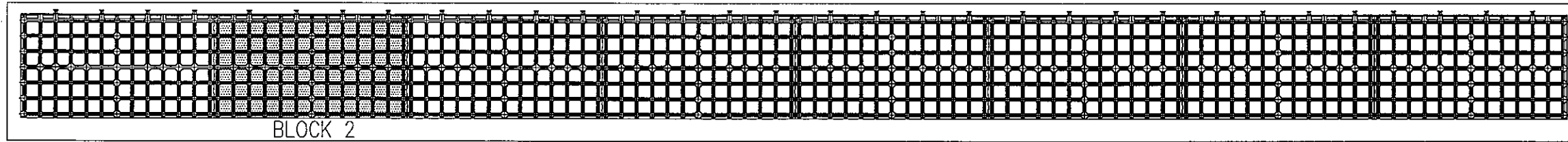


PLAN OF BLOCK 1  
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NOTES:

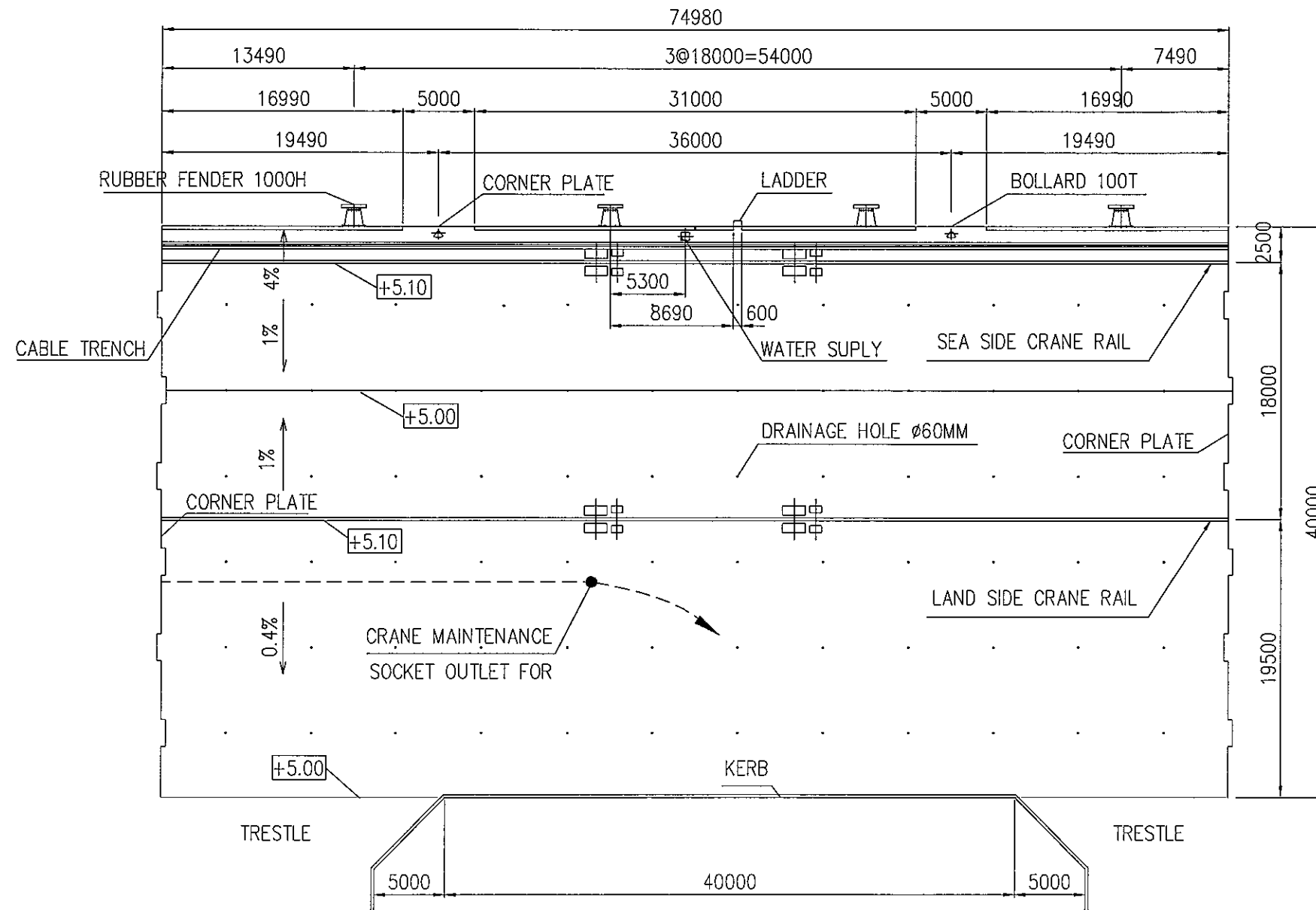
- DIMENSIONS ARE IN [MM].

		<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>		<p>CAI MEP - THI VAI INTERNATIONAL PORT          CONSTRUCTION PROJECT</p>		<p>DESIGNED BY:          BUT AN LOC</p> <p>DRAWN BY:          NGUYEN T. K. DIEM</p> <p>CHECKED BY:          YOSHIDA Y.</p> <p>APPROVED BY:          NAGAI K.</p> <p>ISSUE DATE:          15/SEP/2005</p> <p>SCALE:          1/400</p>		<p>SECTION:          CIVIL WORKS</p> <p>SUB-SECTION:          QUAY FACILITY</p> <p>TITLE OF DRAWING:          DETAILED GENERAL PLAN [1]</p> <p>DWG NO:          PAC2 - TV - QAF -003</p> <p>REV. NO</p>	
<p>JICA</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY          ASSIGNED TO:          JAPAN PORT CONSULTANT (JPC)          PACIFIC CONSULTANTS INTERNATIONAL (PCI)          INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>		<p>PMU85</p>		<p>PACKAGE 2          CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR          THI VAI AREA</p>					
DESCRIPTION	BY	APP							



BLOCK 2

KEY PLAN

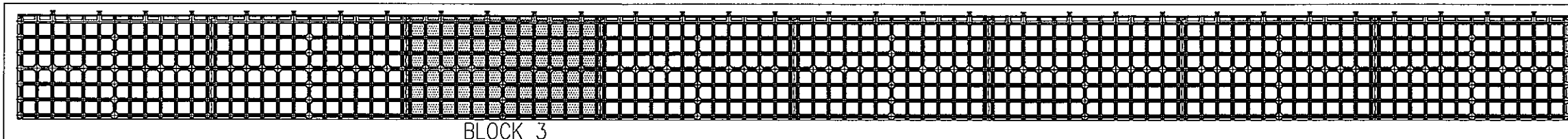


PLAN OF BLOCK 2  
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NOTES:

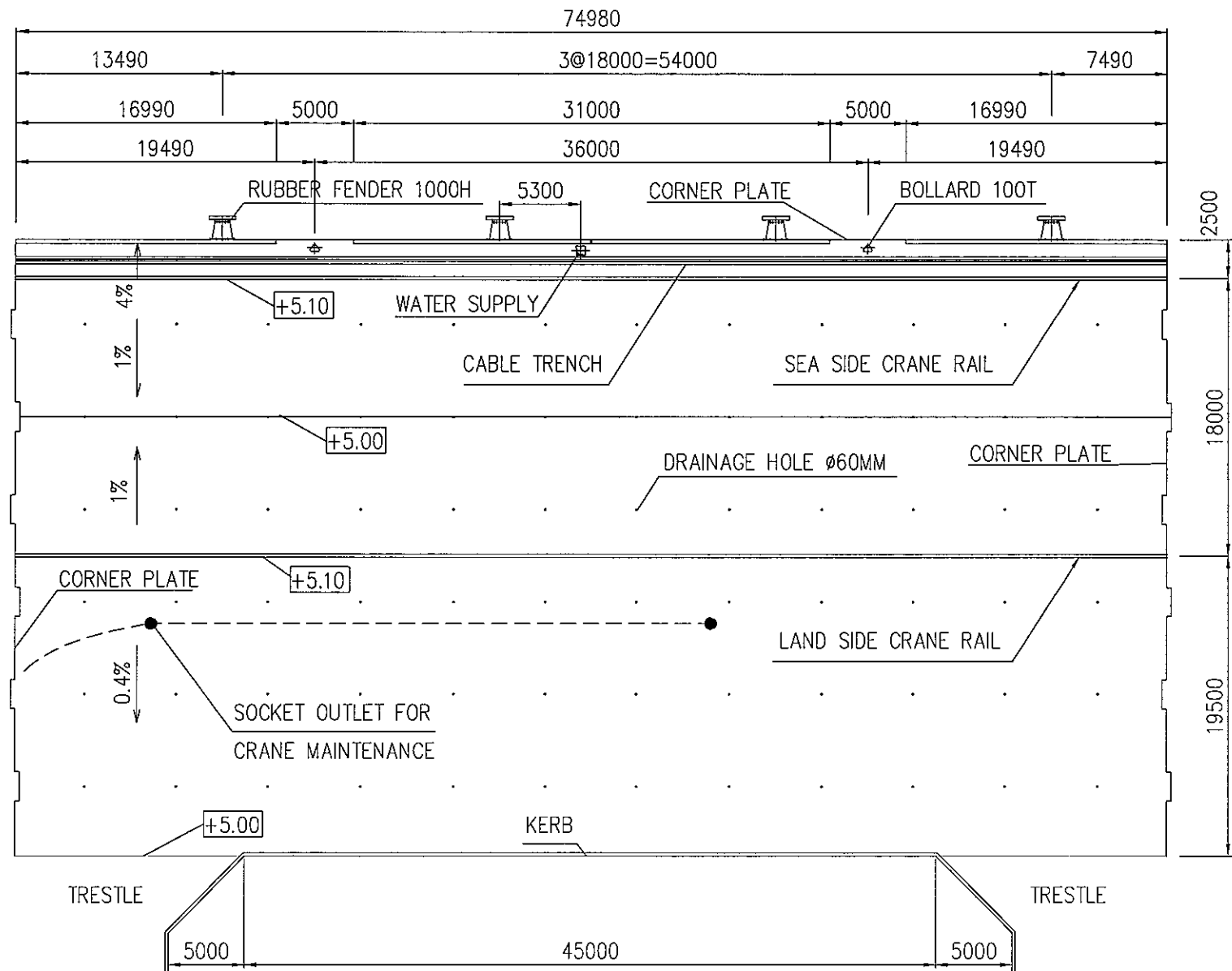
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		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT DEVELOPMENT PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
						DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
						CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: DETAILED GENERAL PLAN [2]	
		JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		APPROVED BY: NAGAI K.		DWG NO: PAC2 - TV - QAF -004	
DESCRIPTION		BY		APP		ISSUE DATE: 15/SEP/2005		REV. NO	
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BLOCK 3

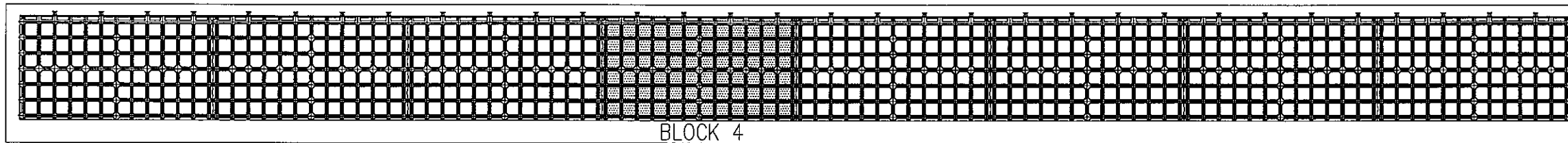
KEY PLAN



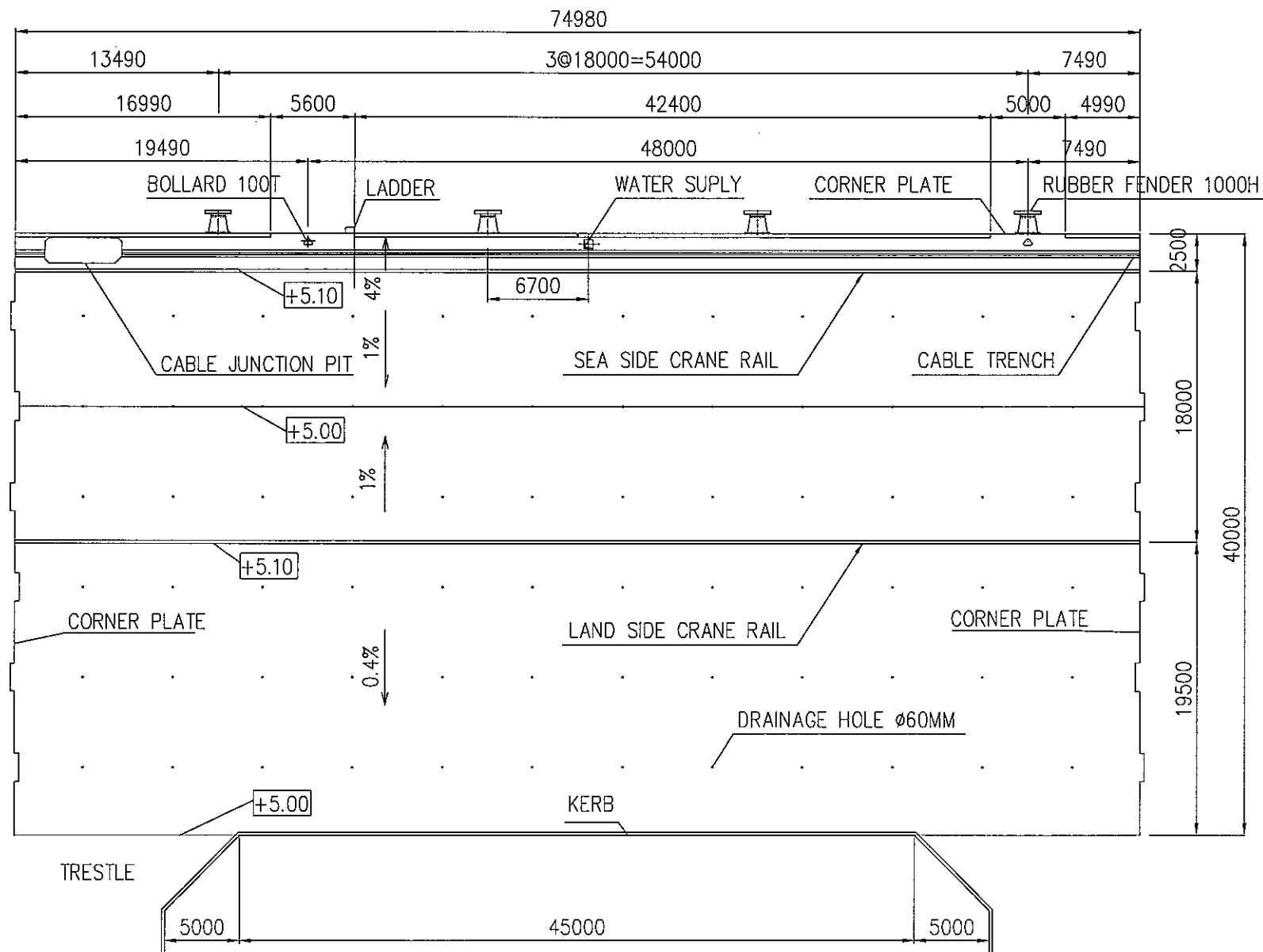
NOTES:

- DIMENSIONS ARE IN [MM].

			<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC DRAWN BY: NGUYEN T. K. DIEM CHECKED BY: YOSHIDA Y. APPROVED BY: NAGAI K. ISSUE DATE: 15/SEP/2005 SCALE: 1/400		SECTION: CIVIL WORKS SUB-SECTION: QUAY FACILITY TITLE OF DRAWING: DETAILED GENERAL PLAN [3]	
			JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA				DWG NO: PAC2 - TV - QAF -005	
DESCRIPTION			BY		APP				REV. NO	



KEY PLAN

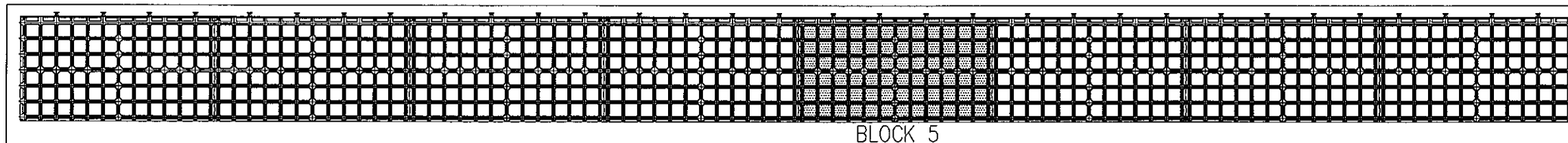


PLAN OF BLOCK 4  
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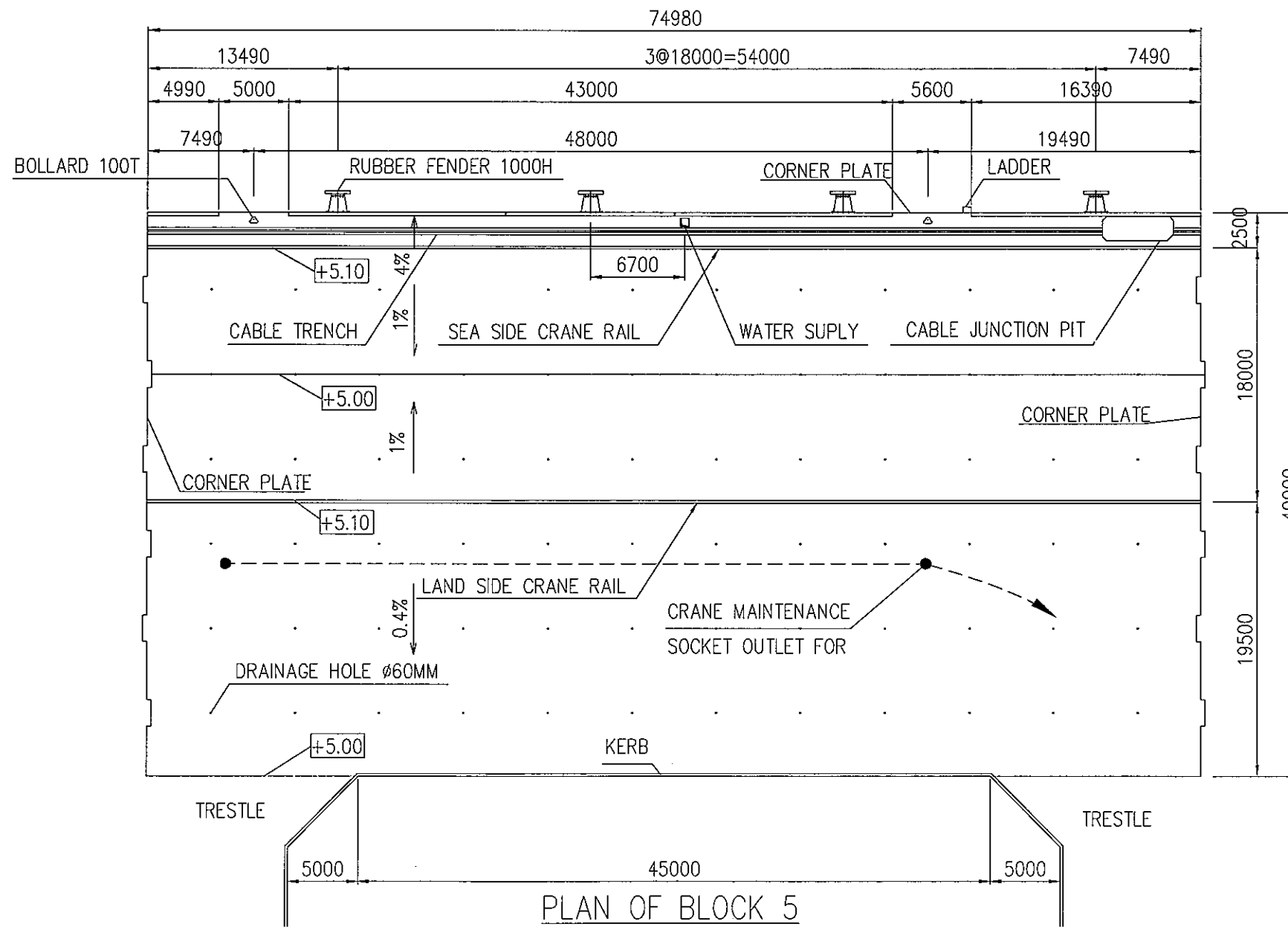
NOTES:

- DIMENSIONS ARE IN [MM].

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
		JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
						CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: DETAILED GENERAL PLAN [4]	
						APPROVED BY: NAGAI K.		DWG NO: PAC2 - TV - QAF -006	
DESCRIPTION		BY		APP		ISSUE DATE: 13/SEP/2005		REV. NO	
						SCALE: 1/400			



BLOCK 5  
KEY PLAN

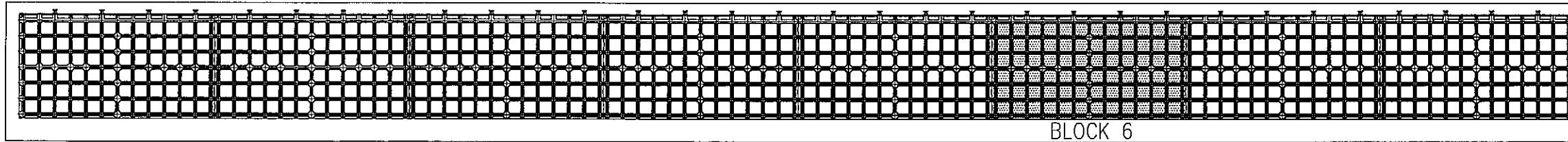


PLAN OF BLOCK 5  
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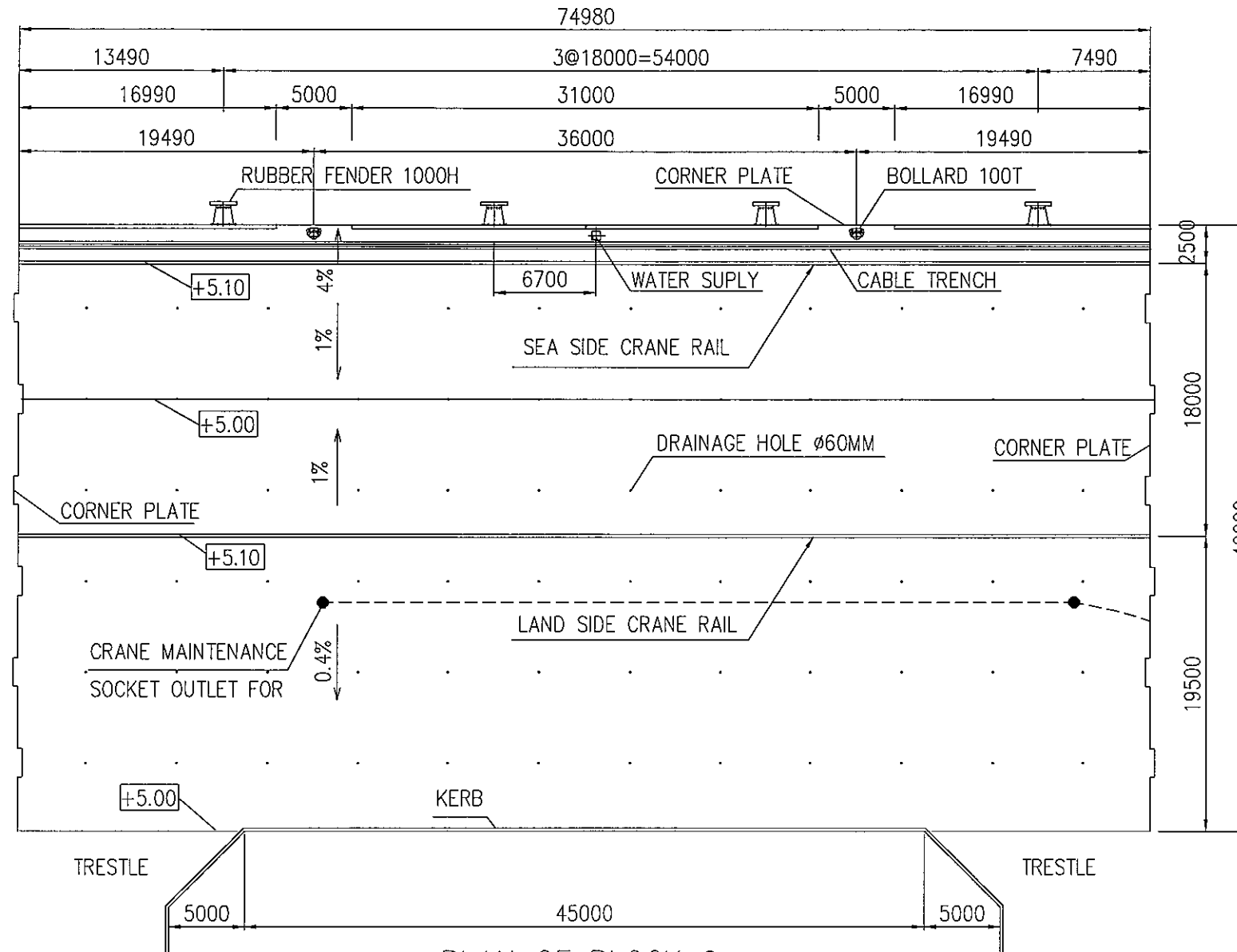
NOTES:

- DIMENSIONS ARE IN [MM].

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
				PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
						CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: DETAILED GENERAL PLAN [5]	
						APPROVED BY: NAGAI K.		DWG NO: PAC2 - TV - QAF -007	
						ISSUE DATE: 15/SEP/2005		REV. NO	
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DESCRIPTION		BY		APP					



KEY PLAN

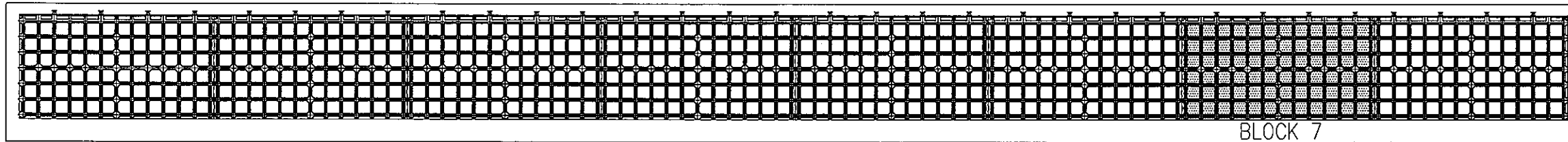


PLAN OF BLOCK 6 SC=1/400

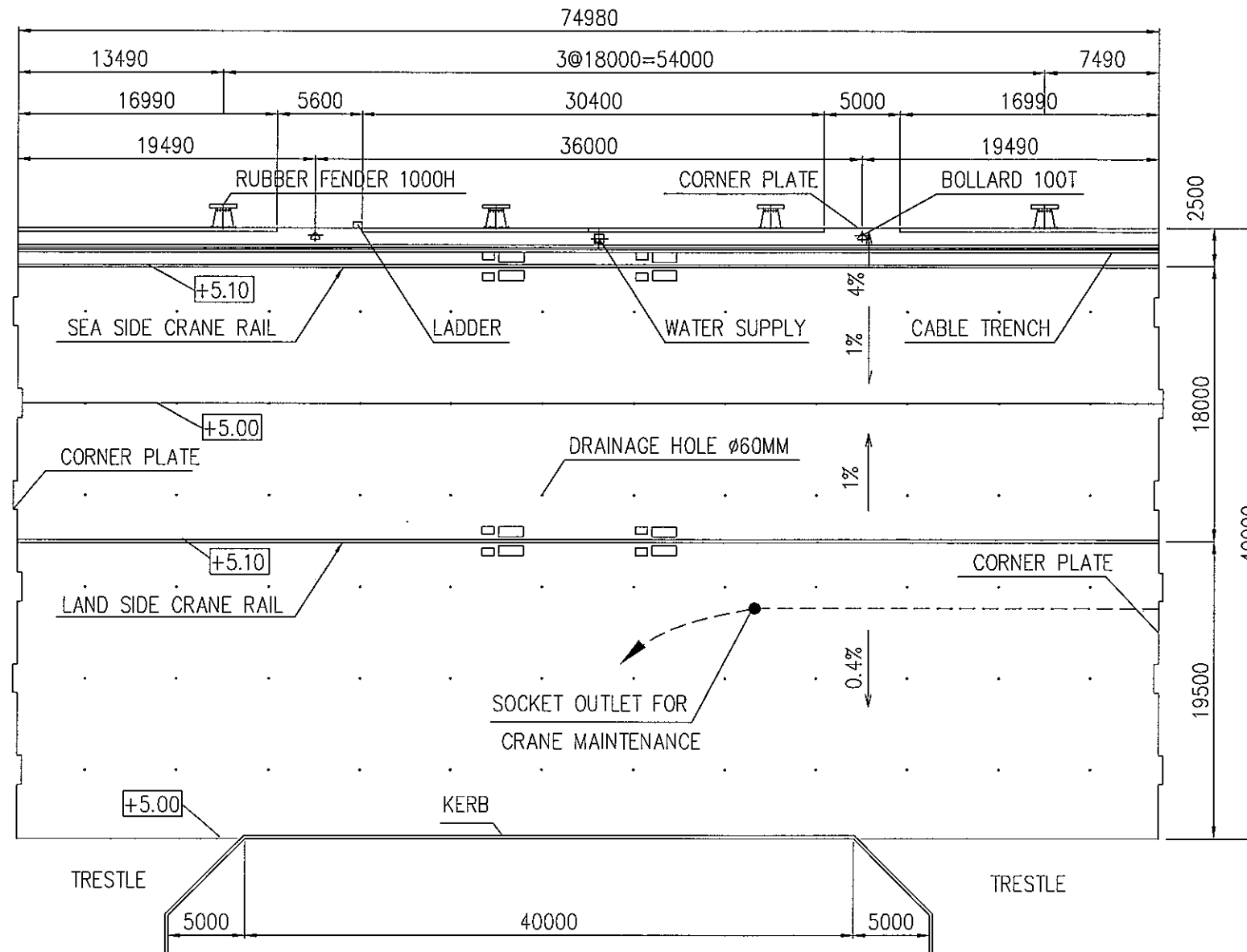
NOTES:

- DIMENSIONS ARE IN [MM].

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
				PACKAGE 1 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
		JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED ID: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)				CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: DETAILED GENERAL PLAN [6]	
DESCRIPTION		BY		APP		APPROVED BY: NAGAI K.		DWG NO: PAC2 - TV - QAF -008	
						ISSUE DATE: 15/SEP/2005		REV. NO	
						SCALE: 1/400			



KEY PLAN

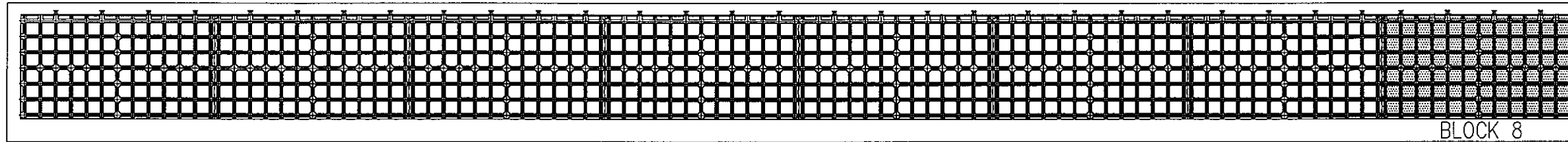


PLAN OF BLOCK 7  
SC=1/400

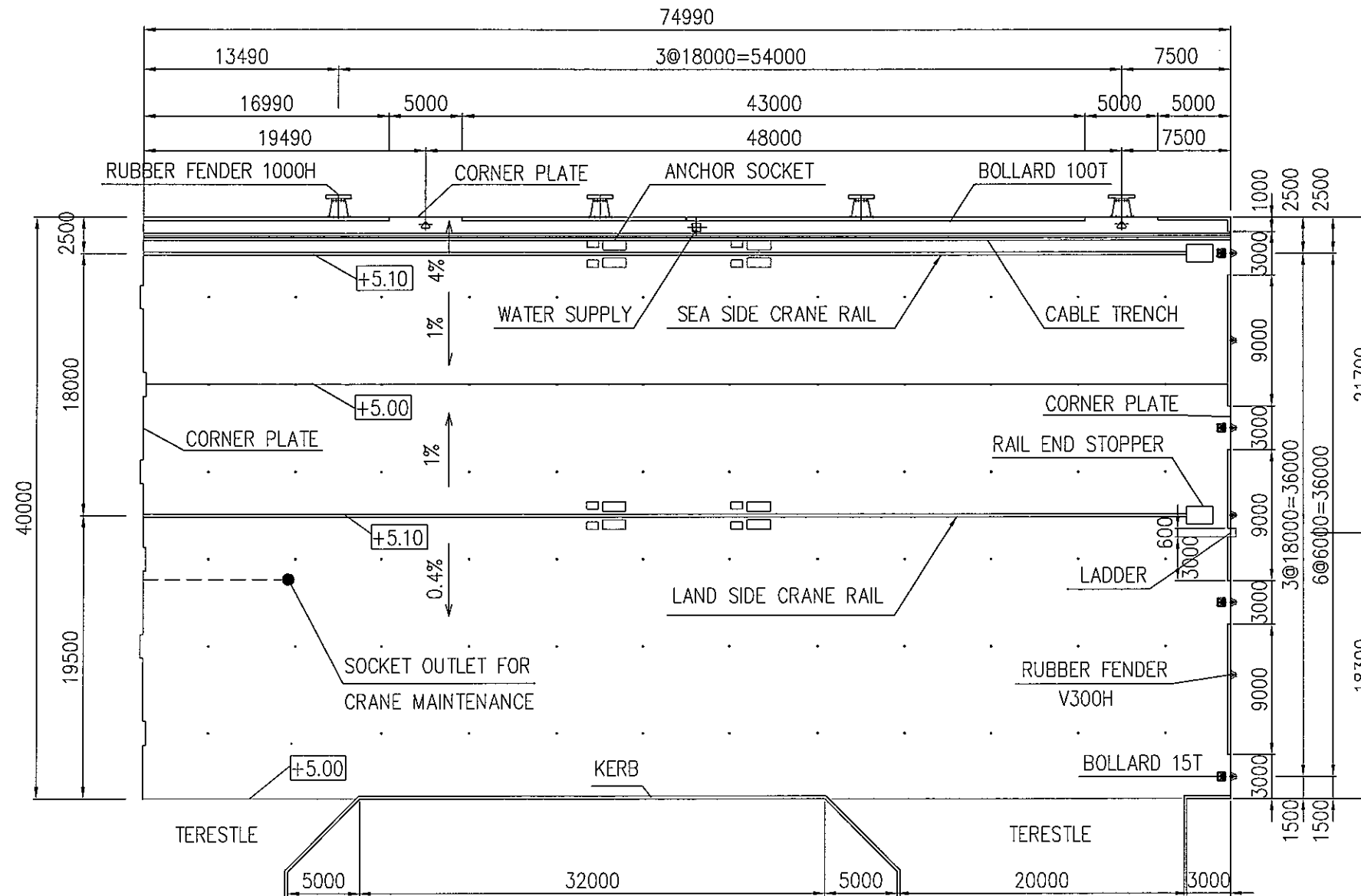
NOTES:

- DIMENSIONS ARE IN [MM].

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
		JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
		JICA				CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: DETAILED GENERAL PLAN [7]	
						APPROVED BY: NAGAI K.		DWG. NO.: PAC2 - TV - QAF -009	
						ISSUE DATE: 15/SEP/2005		REV. NO.	
						SCALE: 1/400			



KEY PLAN

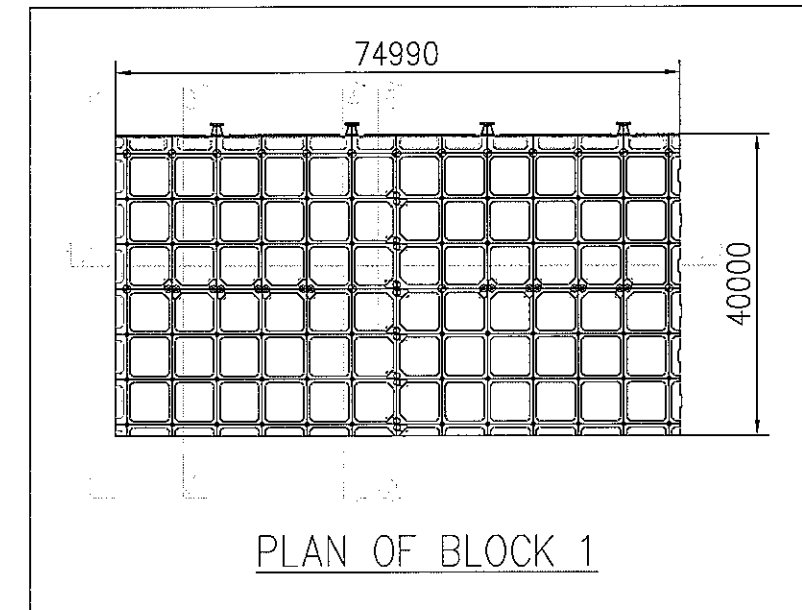
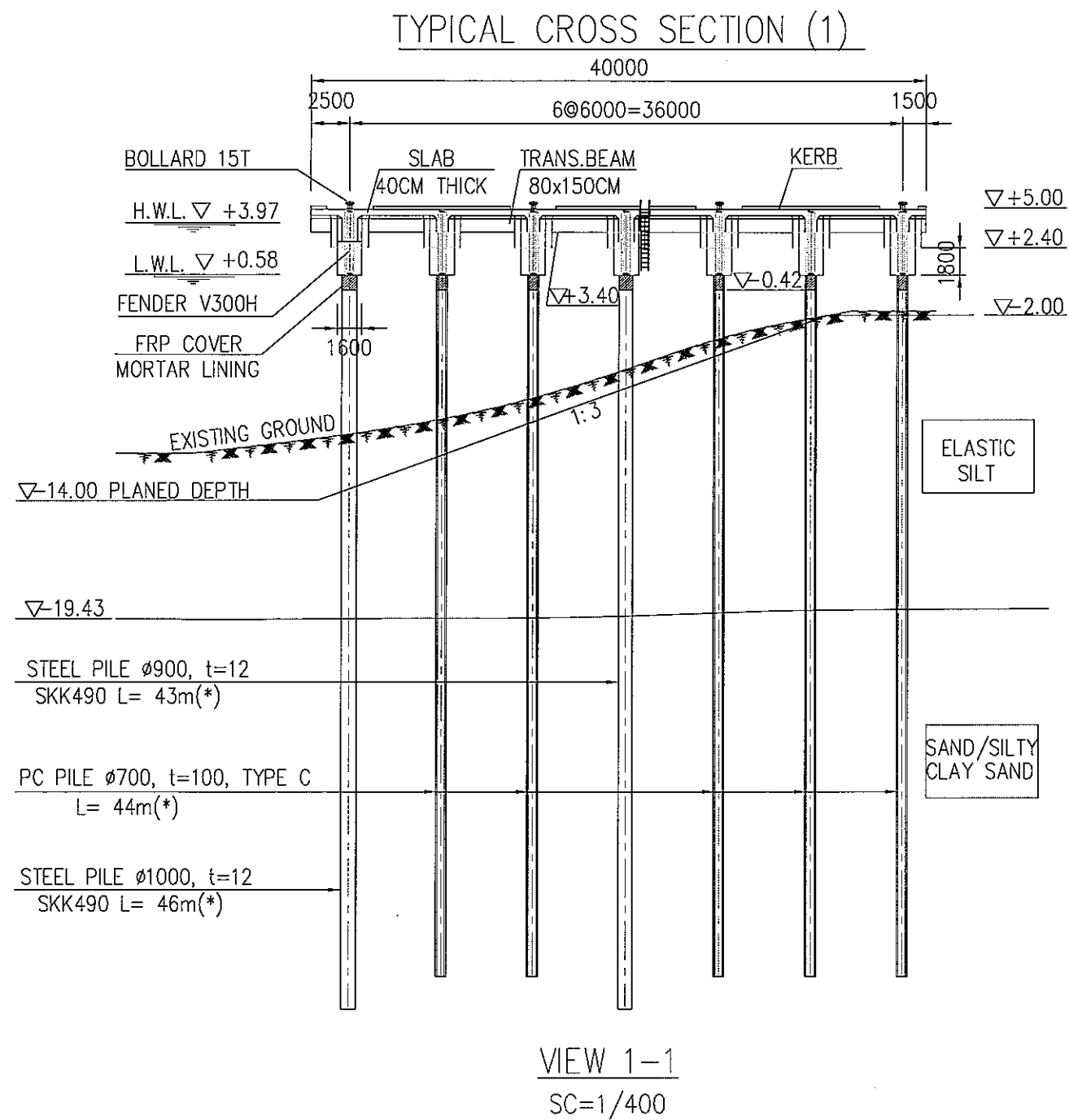


PLAN OF BLOCK 8 SC=1/400

NOTES:

- DIMENSIONS ARE IN [MM].

		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUT AN LOC DRAWN BY: NGUYEN T. K. DIEM CHECKED BY: YOSHIDA Y. APPROVED BY: NAGAI K. ISSUE DATE: 15/SEP/2005 SCALE: 1/400		SECTION: CIVIL WORKS SUB-SECTION: QUAY FACILITY TITLE OF DRAWING: DETAILED GENERAL PLAN [8]	
		JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA		DWG NO: PAC2 - TV - QAF - 010		REV. NO	
DESCRIPTION	BY	APP							

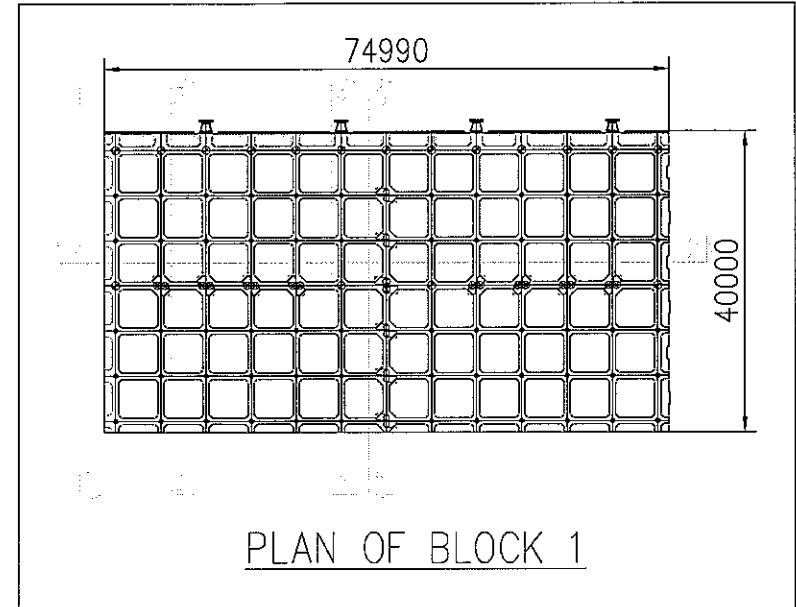
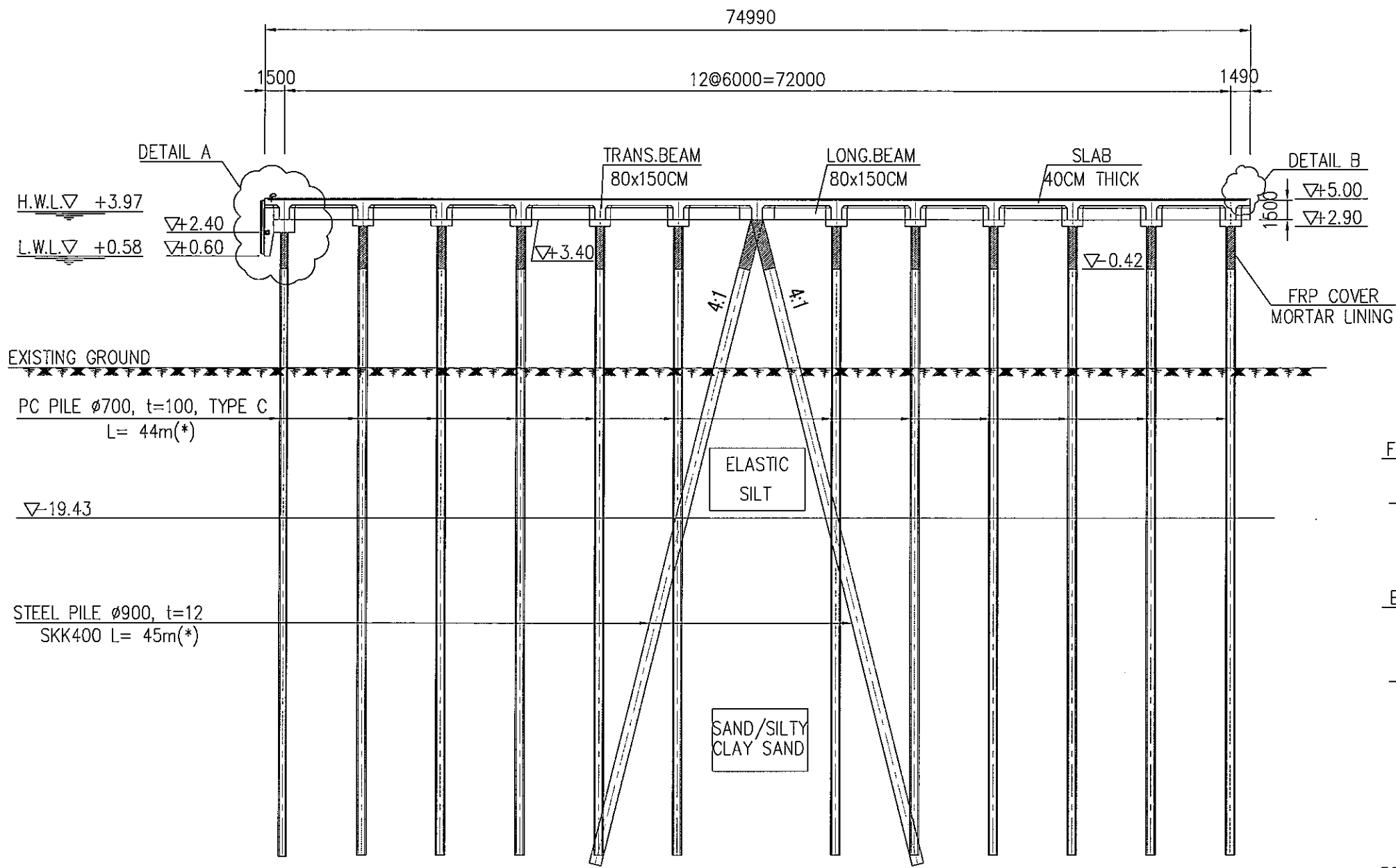


**NOTES:**

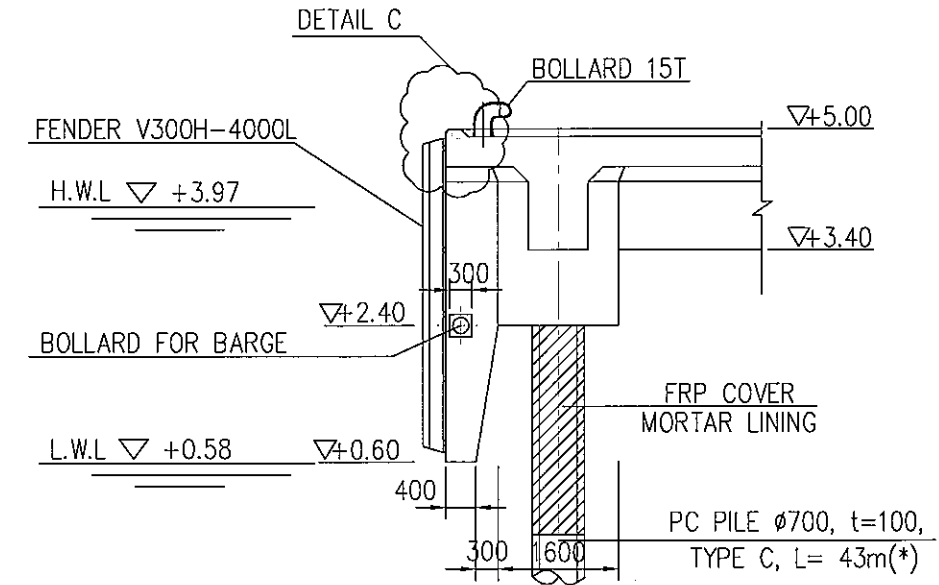
- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\* ) PILES LENGTH IS REFERENCE ONLY
- ALL PC PILES SHALL BE COATED WITH ZINC RICH TAR EPOXY PAINT

<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT			DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA			DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
					SCALE: 1/400, 1/100			CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: TYPICAL CROSS SECTION (1)	
APPROVED BY: NAGAI K.					ISSUE DATE: 15/SEP/2005			DWG NO: PAC1-TV-QAF-011		REV. NO	
REV. NO	DATE	DESCRIPTION	BY	APP							

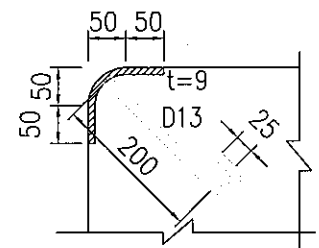
# TYPICAL CROSS SECTION (2)



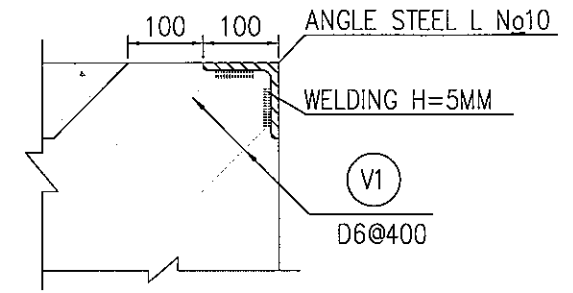
PLAN OF BLOCK 1



DETAIL A  
SC=1/100



DETAIL C  
SC=1/10



DETAIL B  
SC=1/10

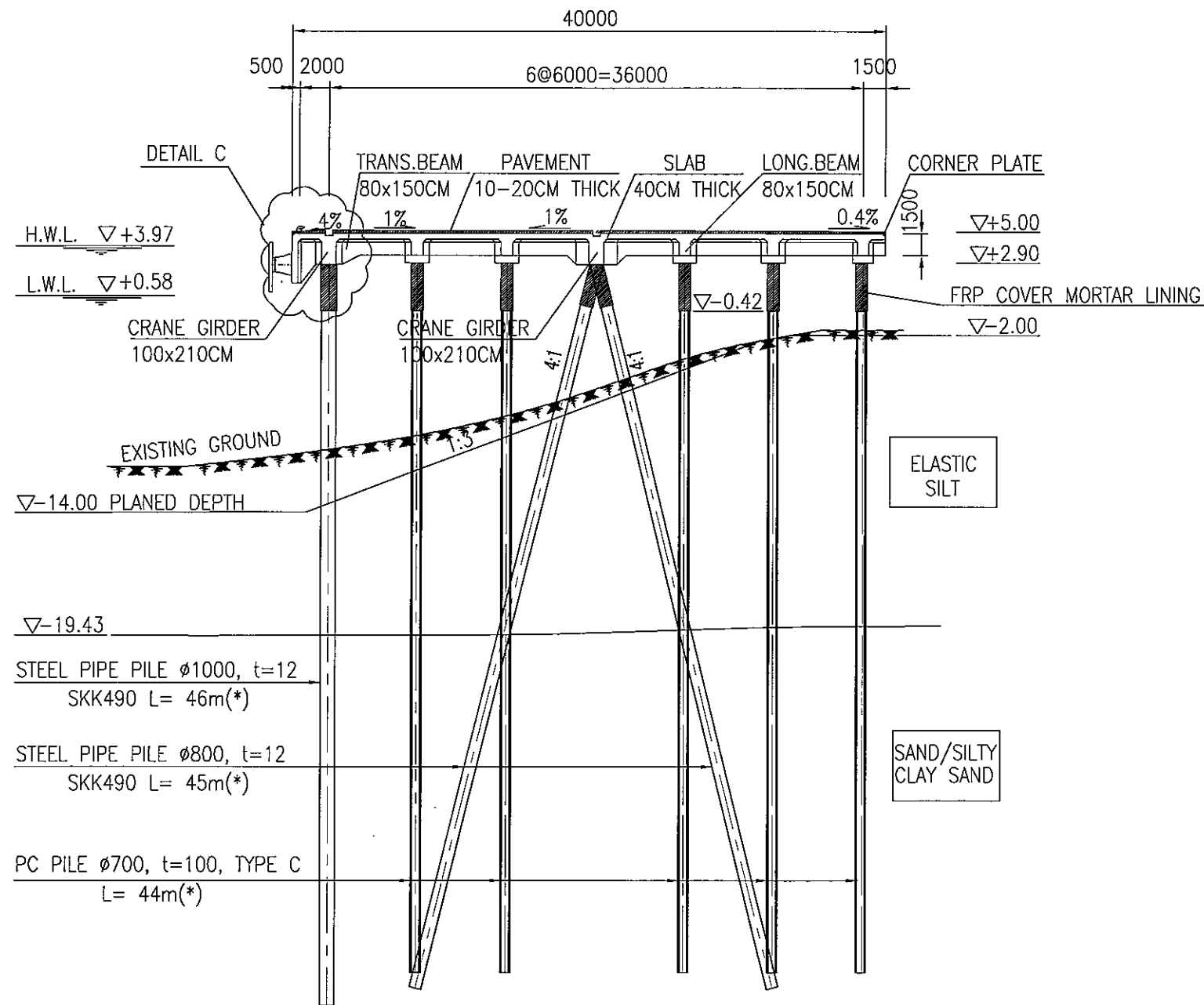
SECTION 2-2  
SC=1/400

### NOTES:

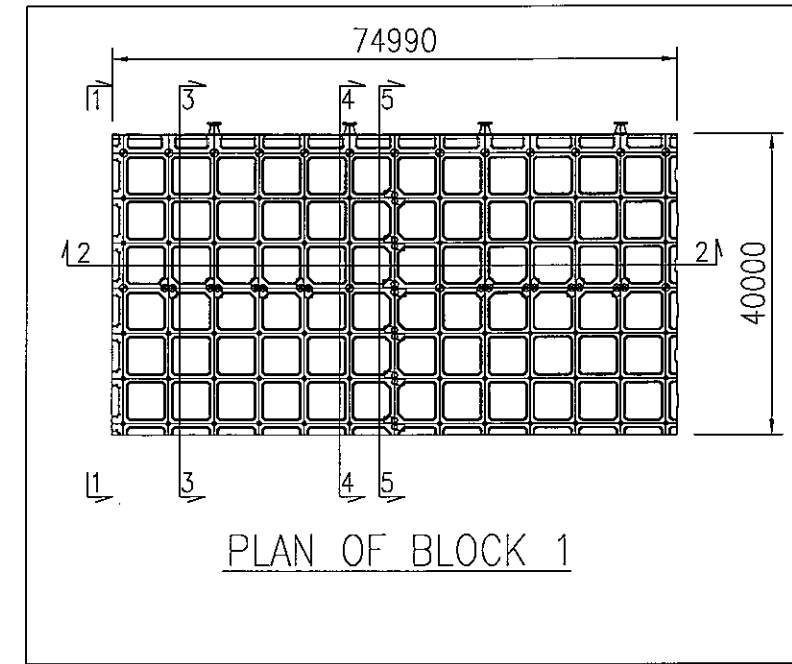
- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\*) PILE LENGTH IS REFERENCE ONLY
- ALL PC PILES SHALL BE COATED WITH ZINC RICH TAR EPOXY PAINT

<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>          MINISTRY OF TRANSPORT          PROJECT MANAGEMENT UNIT 85</p>					<p>CAI MEP - THI VAI INTERNATIONAL PORT          CONSTRUCTION PROJECT</p>			<p>DESIGNED BY:          BUI AN LOC</p>		<p>SECTION:          CIVIL WORKS</p>	
<p>JICA          JAPAN INTERNATIONAL COOPERATION AGENCY          ASSIGNED TO:          JAPAN PORT CONSULTANT (JPC)          PACIFIC CONSULTANTS INTERNATIONAL (PCI)          INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p>PACKAGE 2          CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR          THI VAI AREA</p>			<p>DRAWN BY:          NGUYEN T. K. DIEM</p>		<p>SUB-SECTION:          QUAY FACILITY</p>	
<p>REV NO DATE DESCRIPTION BY APP</p>					<p>APPROVED BY:          NAGAI K.</p>			<p>CHECKED BY:          YOSHIDA Y.</p>		<p>TITLE OF DRAWING:          TYPICAL CROSS SECTION (2)</p>	
					<p>SCALE:          1/400, 1/100</p>			<p>ISSUE DATE:          15/SEP/2005</p>		<p>DWG NO:          PAC1-TV-QAF-012</p>	
								<p>SCALE:          1/400, 1/100</p>		<p>REV. NO</p>	

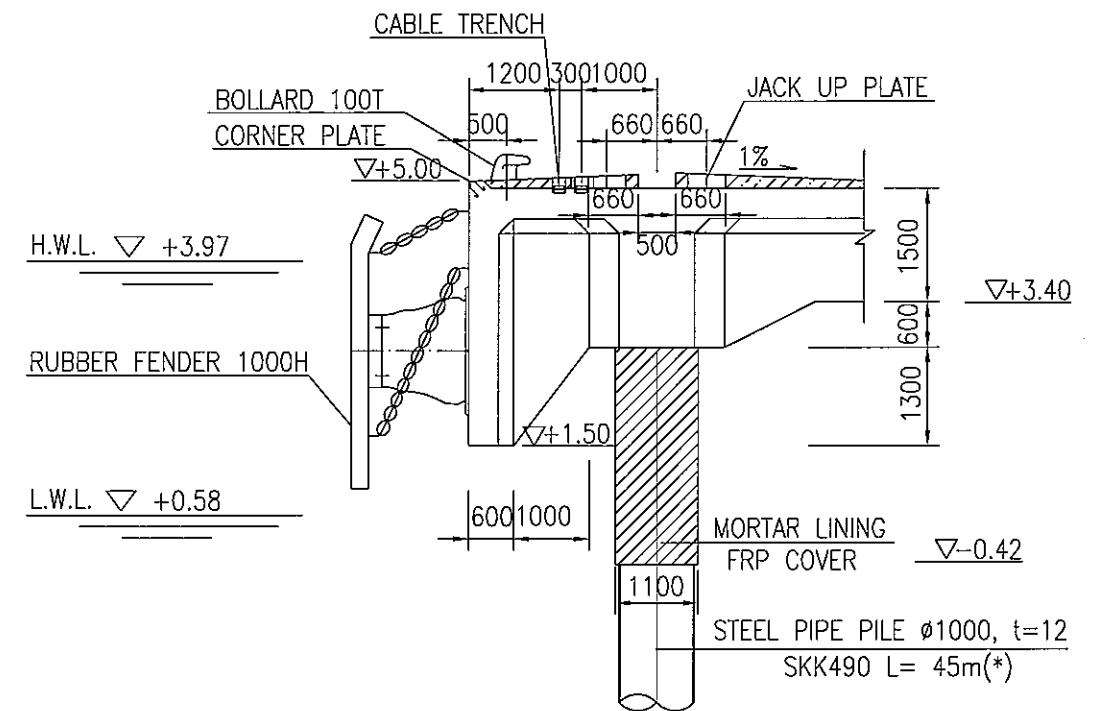
### TYPICAL CROSS SECTION (3)



SECTION 3-3  
SC=1/400



PLAN OF BLOCK 1



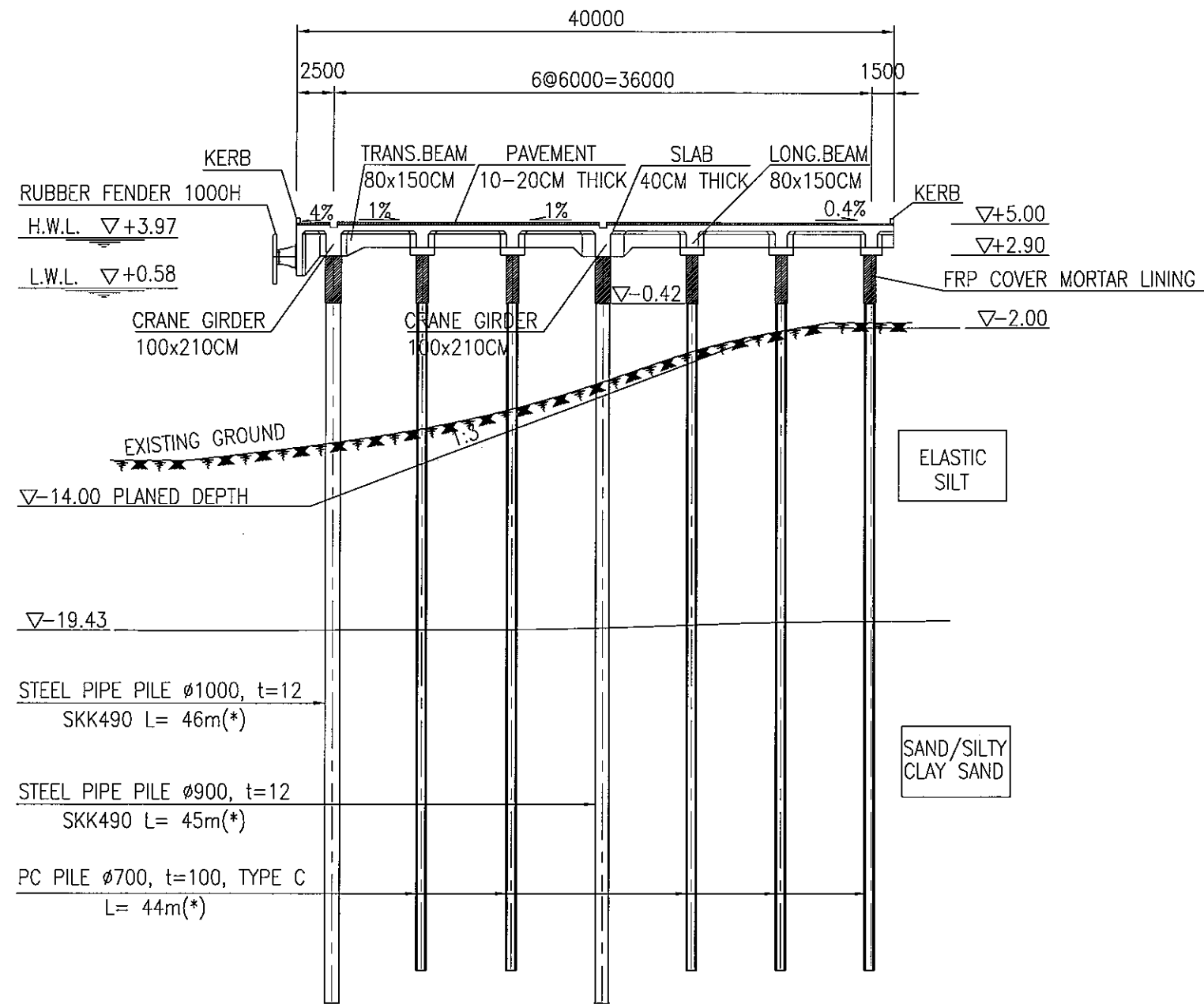
DETAIL C  
SC=1/100

#### NOTES:

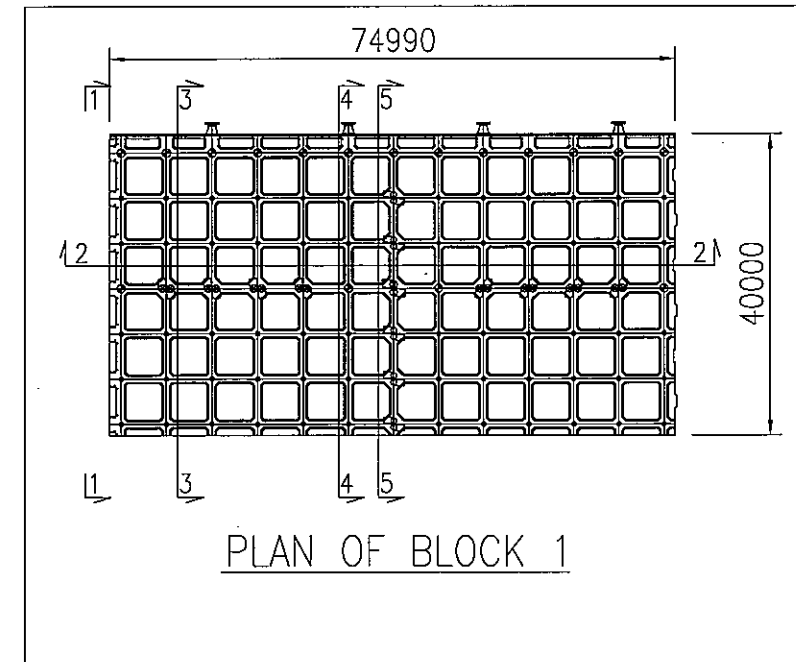
- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\*) PILES LENGTH IS REFERENCE ONLY
- ALL PC PILES SHALL BE COATED WITH ZINC RICH TAR EPOXY PAINT

<p align="center"><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT          CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: BUI AN LOC</p>		<p>SECTION: CIVIL WORKS</p>	
<p align="center">ASSIGNED TO:  <b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>  <b>JAPAN PORT CONSULTANT (JPC)</b>  <b>PACIFIC CONSULTANTS INTERNATIONAL (PCI)</b>  <b>INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</b></p>					<p align="center">PACKAGE 2          CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR          THI VAI AREA</p>		<p>DRAWN BY: NGUYEN T. K. DIEM</p>		<p>SUB-SECTION: QUAY FACILITY</p>	
<p align="center"> </p>					<p align="center">SCALE: 1/400, 1/100</p>		<p>CHECKED BY: YOSHIDA Y.</p>		<p>TITLE OF DRAWING: TYPICAL CROSS SECTION (3)</p>	
<p>REV NO    DATE    DESCRIPTION    BY    APP</p>					<p align="center">DWG NO: PAC2-TV-QAF -013</p>		<p>APPROVED BY: NAGAI K.</p>		<p>REV. NO</p>	
							<p>ISSUE DATE: 15/SEP/2005</p>			

TYPICAL CROSS SECTION (4)



SECTION 4-4  
SC=1/400



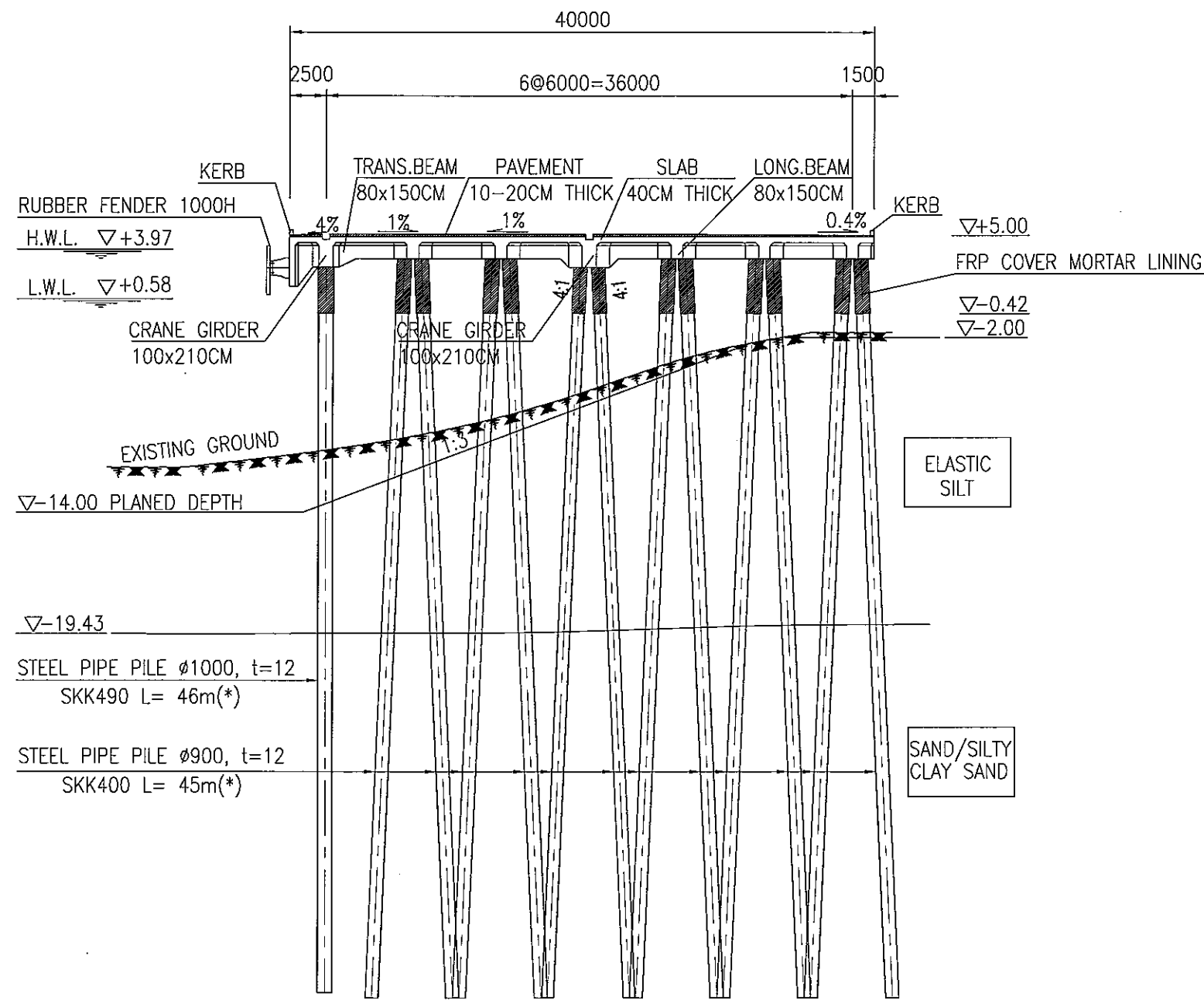
PLAN OF BLOCK 1

NOTES:

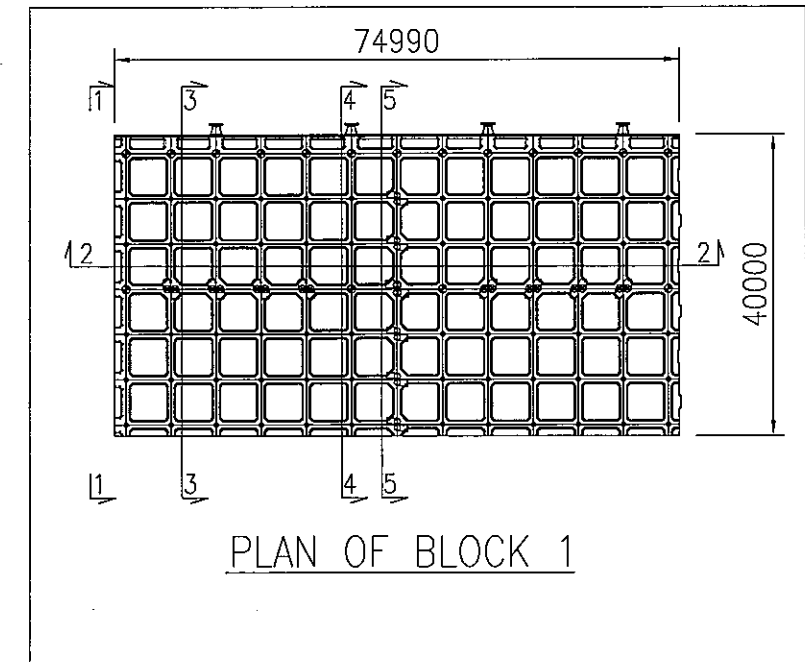
- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\*) PILES LENGTH IS REFERENCE ONLY
- ALL PC PILES SHALL BE COATED WITH ZINC RICH TAR EPOXY PAINT

<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85					CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT			DESIGNED BY: BUI AN LOC		SECTION: CIVIL WORKS	
JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)					PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA			DRAWN BY: NGUYEN T. K. DIEM		SUB-SECTION: QUAY FACILITY	
								CHECKED BY: YOSHIDA Y.		TITLE OF DRAWING: TYPICAL CROSS SECTION (4)	
								APPROVED BY: NAGAI K.		DWG NO: PAC2-TV-QAF-014	
								ISSUE DATE: 15/SEP/2005		REV. NO	
								SCALE: 1/400, 1/100			
REV. NO	DATE	DESCRIPTION	BY	APP							

### TYPICAL CROSS SECTION (5)



SECTION 5-5  
SC=1/400

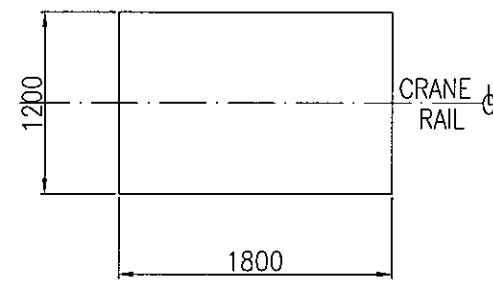
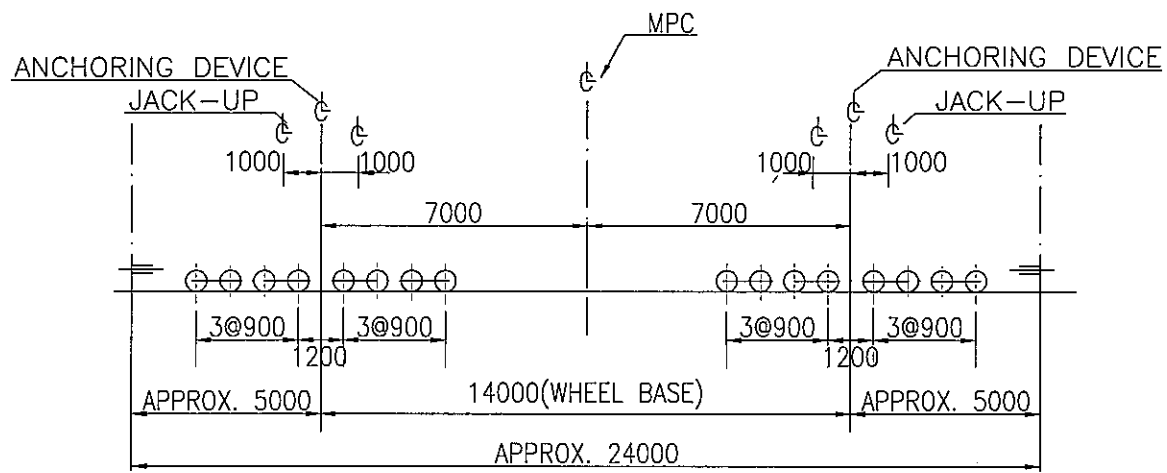
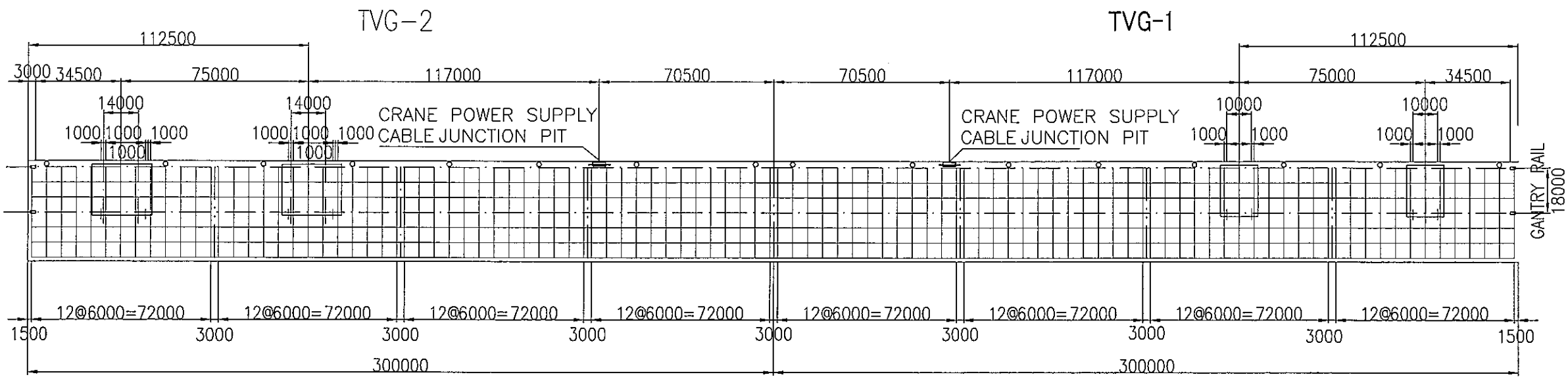


PLAN OF BLOCK 1

#### NOTES:

- DIMENSIONS ARE IN [MM].
- ELEVATIONS ARE IN [M] - CHART DATUM
- (\* ) PILES LENGTH IS REFERENCE ONLY
- ALL PC PILES SHALL BE COATED WITH ZINC RICH TAR EPOXY PAINT

<p align="center"><b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: BUI AN LOC</p>		<p>SECTION: CIVIL WORKS</p>	
<p align="center">JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>					<p align="center">PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>			<p>DRAWN BY: NGUYEN T. X. DIEM</p>		<p>SUB-SECTION: QUAY FACILITY</p>	
								<p>CHECKED BY: YOSHIDA Y.</p>		<p>TITLE OF DRAWING: TYPICAL CROSS SECTION (5)</p>	
								<p>APPROVED BY: NAGAI K.</p>		<p>DWG NO: PAC2-TV-QAF-015</p>	
								<p>ISSUE DATE: 13/SEP/2005</p>		<p>REV. NO</p>	
								<p>SCALE: 1/400, 1/100</p>			
REV NO	DATE	DESCRIPTION	BY	APP							

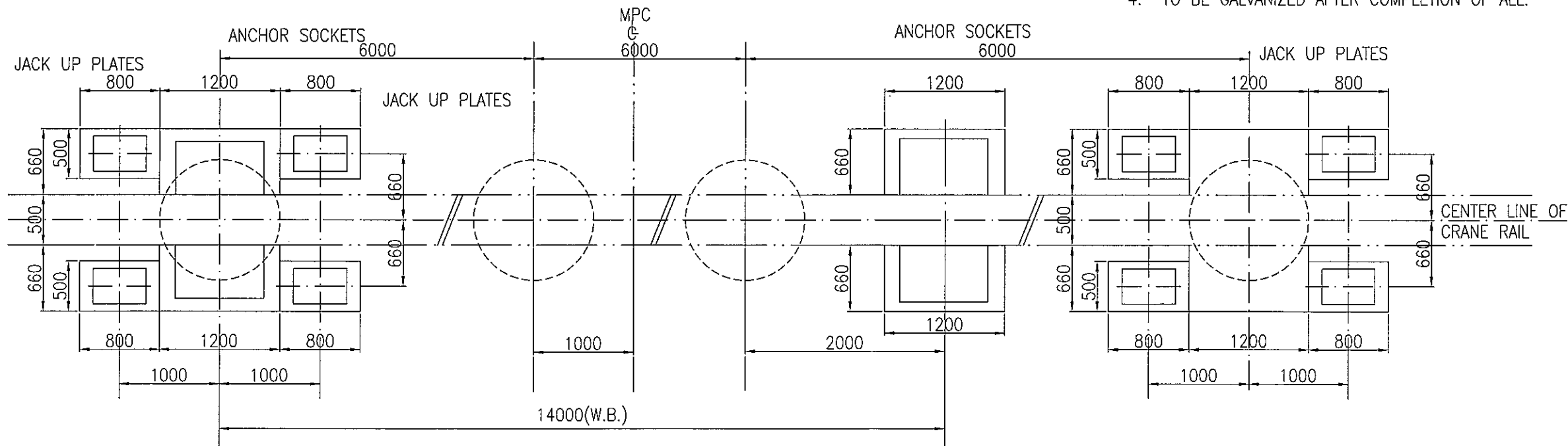


**ANCHOR SOCKETS:**

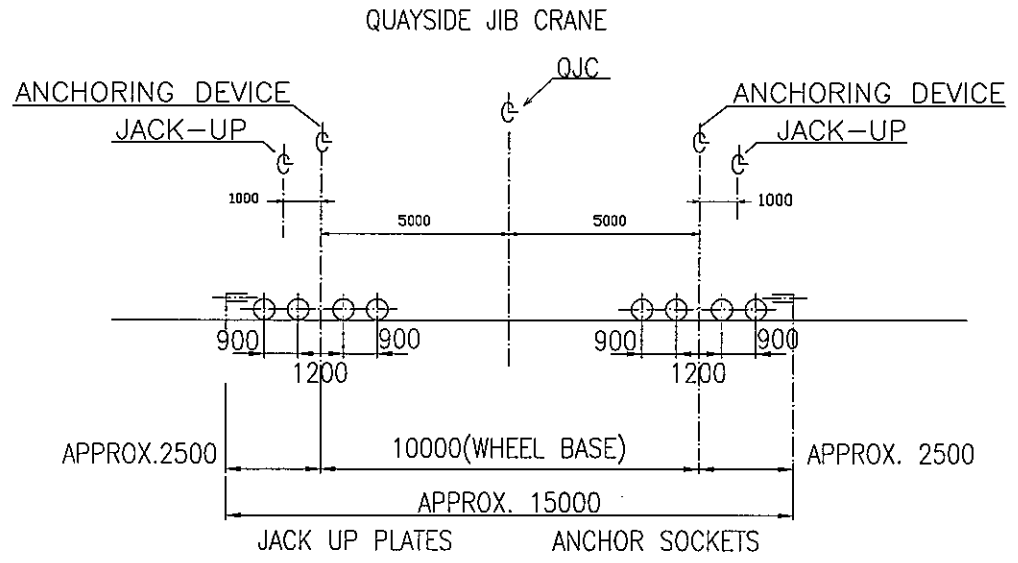
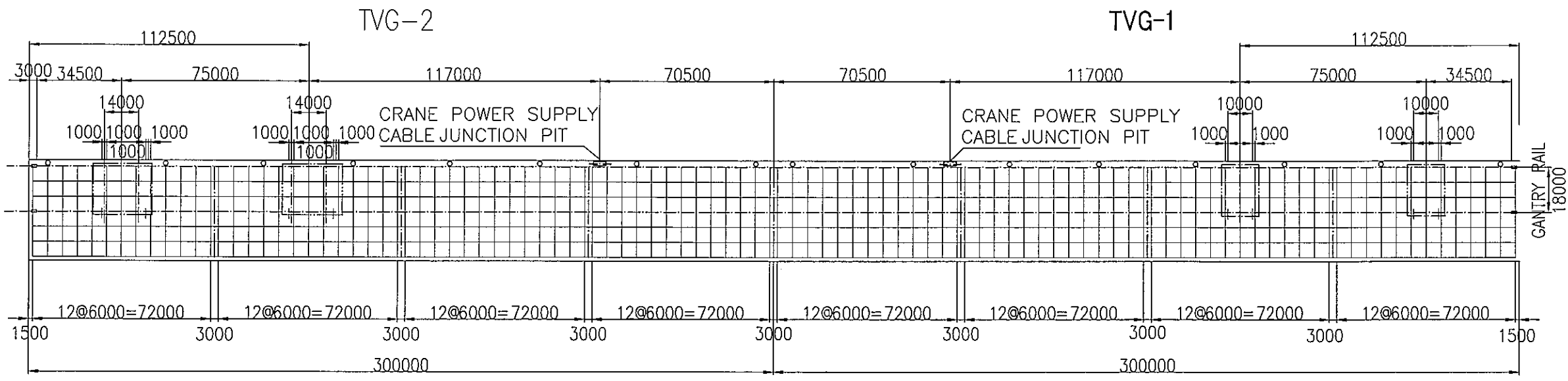
1. FOUR (4) SETS OF ANCHOR SOCKETS (TWO PIECES PER CORNER) SHALL BE REQUIRED FOR ONE (1) MULTI-PURPOSE QUAYSIDE CRANE.
2. ANCHOR SOCKETS WITH ANCHOR BOLTS SHALL BE DESIGNED, MANUFACTURED, SUPPLIED BY THE SUPPLIER.
3. DEBURR AND BREAK SHARP EDGES.
4. TO BE GALVANIZED AFTER COMPLETION OF ALL.

**JACK UP PLATES:**

1. FOUR (4) SETS OF JACK UP PLATES (FOUR PIECES PER CORNER) SHALL BE REQUIRED FOR ONE (1) MULTI-PURPOSE QUAYSIDE CRANE.
2. JACK UP PLATES WITH ANCHOR METALS SHALL BE DESIGNED, MANUFACTURED, SUPPLIED BY THE SUPPLIER.
3. DEBURR AND BREAK SHARP EDGES.
4. TO BE GALVANIZED AFTER COMPLETION OF ALL.



		<b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85		CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT		DESIGNED BY: BUI AN LOC DRAWN BY: VU THI HANG CHECKED BY: YOSHIDA Y. APPROVED BY: NAGAI K. ISSUE DATE: 15/SEP/2005 SCALE: 1/2000, 1/200, 1/50		SECTION: CIVIL WORKS SUB-SECTION: QUAY FACILITIES TITLE OF DRAWING: FACILITY ARRANGEMENT FOR CRANE [1]	
		JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)		PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA				DWG NO: PAC2-TV-QAF-016 REV. NO	
REV NO	DATE	DESCRIPTION	BY	APP					

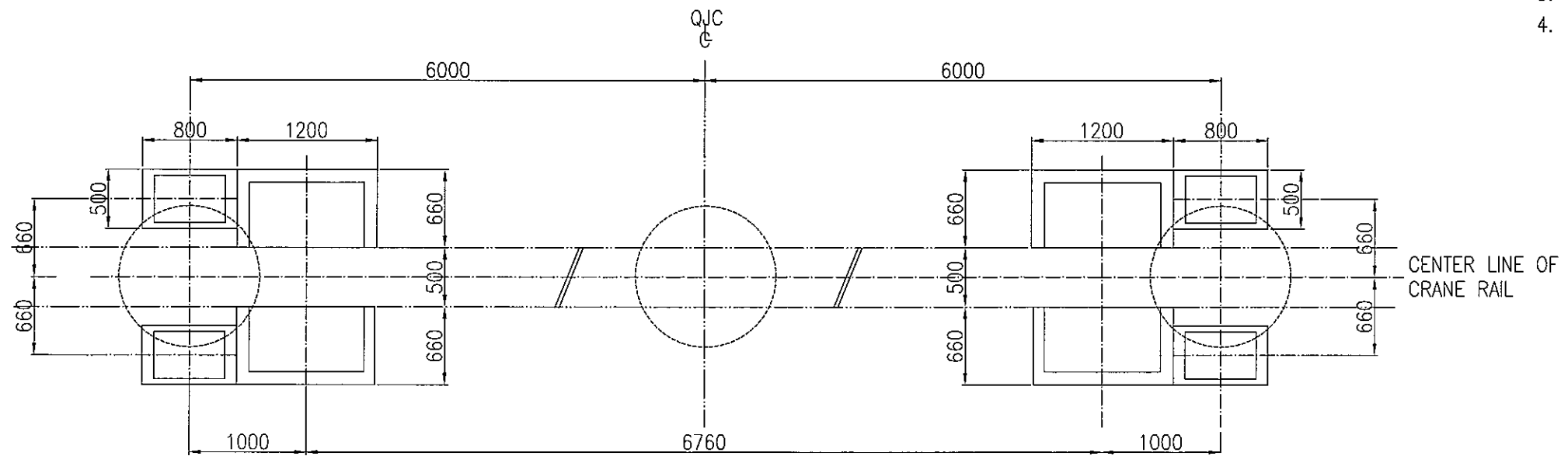


**ANCHOR SOCKETS:**

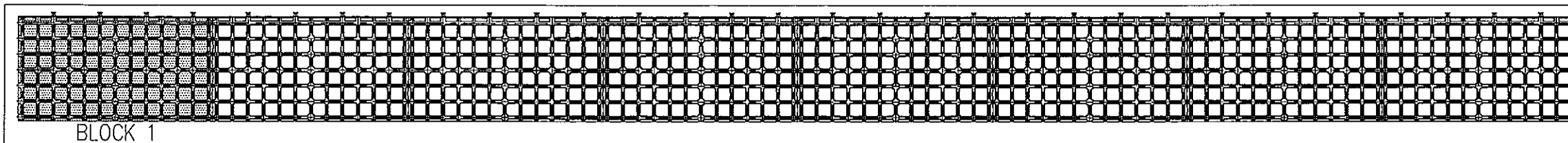
1. FOUR (4) SETS OF ANCHOR SOCKETS (TWO PIECES PER CORNER) SHALL BE REQUIRED FOR ONE (1) QUAYSIDE JIS CRANE.
2. ANCHOR SOCKETS WITH ANCHOR BOLTS SHALL BE DESIGNED, MANUFACTURED, SUPPLIED BY THE SUPPLIER.
3. DEBURR AND BREAK SHARP EDGES.
4. TO BE GALVANIZED AFTER COMPLETION OF ALL.

**JACK UP PLATES:**

1. FOUR (4) SETS OF JACK UP PLATES (TWO PIECES PER CORNER) SHALL BE REQUIRED FOR ONE (1) QUAYSIDE JIS CRANE.
2. JACK UP PLATES WITH ANCHOR METALS SHALL BE DESIGNED, MANUFACTURED, SUPPLIED BY THE SUPPLIER.
3. DEBURR AND BREAK SHARP EDGES.
4. TO BE GALVANIZED AFTER COMPLETION OF ALL.



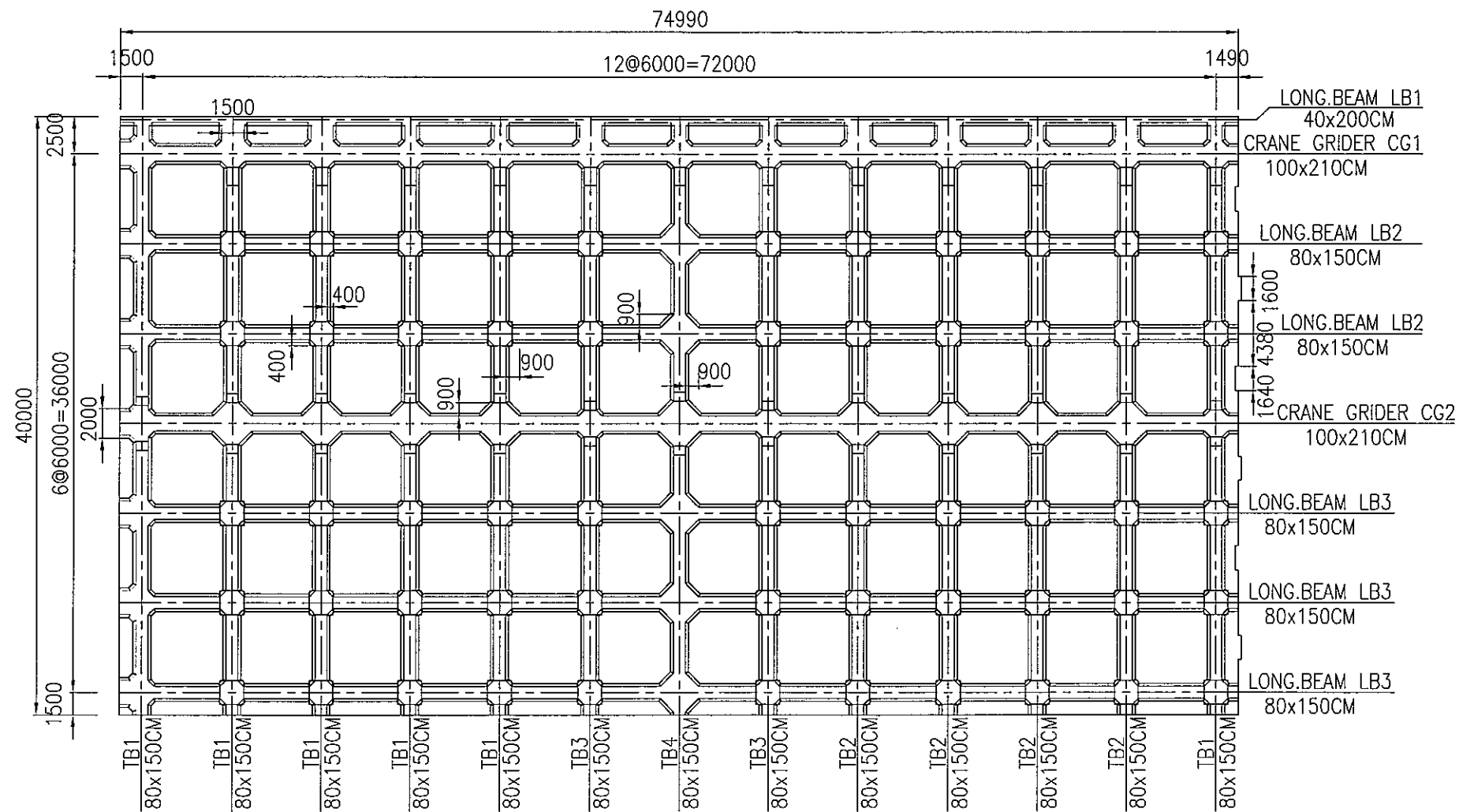
<p align="center"><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>					<p align="center">CAI MEP - THI VAI INTERNATIONAL PORT  CONSTRUCTION PROJECT</p>			<p>DESIGNED BY: BUI AN LOC  DRAWN BY: VU THI HANG  CHECKED BY: YOSHIDA Y.  APPROVED BY: NAGAI K.  ISSUE DATE: 15/SEP/2005  SCALE: 1/2000, 1/200, 1/50</p>		<p>SECTION: CIVIL WORKS  SUB-SECTION: QUAY FACILITIES  TITLE OF DRAWING: FACILITY ARRANGEMENT CRANE [2]  DWG NO: PAC2-TV-QAF-017  REV. NO</p>	
<p align="center">JICA  <b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>  ASSIGNED TO:  <b>JAPAN PORT CONSULTANT (JPC)</b>  <b>PACIFIC CONSULTANTS INTERNATIONAL (PCI)</b>  <b>INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</b></p>					<p align="center">PACKAGE 2  CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR  THI VAI AREA</p>						
REV NO	DATE	DESCRIPTION	BY	APP							



BLOCK 1

KEY PLAN

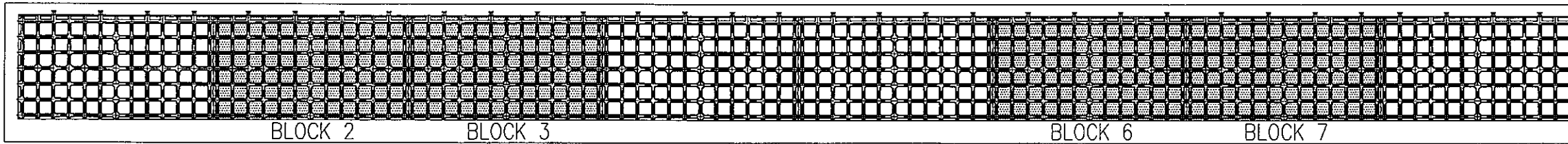
LAYOUT OF BEAMS OF BLOCK 1  
SC=1/400



NOTES:

- DIMENSIONS ARE IN [MM]

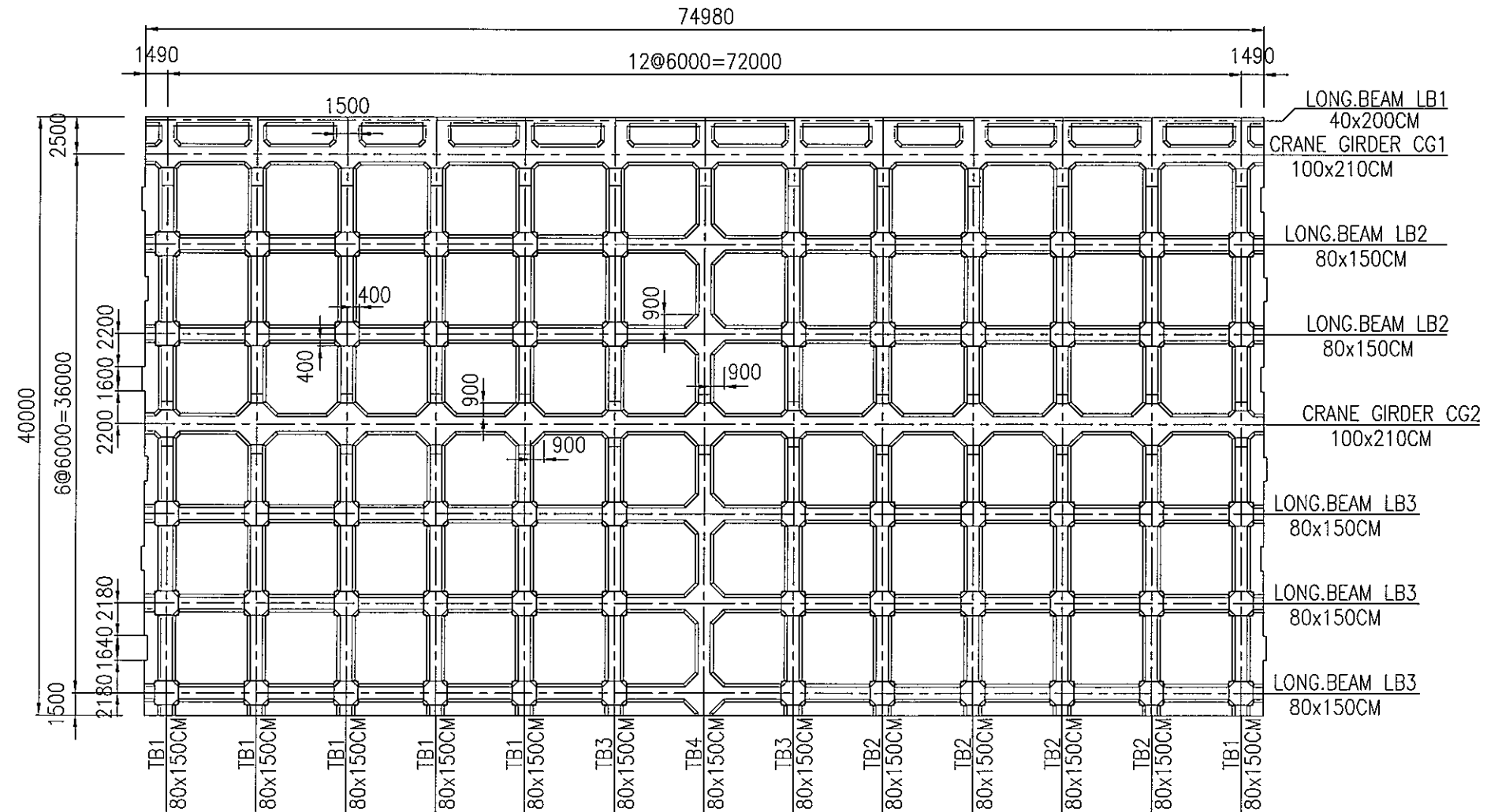
			<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b> MINISTRY OF TRANSPORT PROJECT MANAGEMENT UNIT 85</p>		<p>CAI MEP - THI VAI INTERNATIONAL PORT CONSTRUCTION PROJECT</p>		<p>DESIGNED BY: BUI AN LOC</p>		<p>SECTION: CIVIL WORKS</p>	
			<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: JAPAN PORT CONSULTANT (JPC) PACIFIC CONSULTANTS INTERNATIONAL (PCI) INTERNATIONAL DEVELOPMENT SYSTEM (IDS)</p>		<p>PACKAGE 2 CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR THI VAI AREA</p>		<p>DRAWN BY: NGUYEN T. K. DIEM</p>		<p>SUB-SECTION: QUAY FACILITY</p>	
							<p>CHECKED BY: YOSHIDA Y.</p>		<p>TITLE OF DRAWING: LAYOUT OF BEAM FOR BLOCK 1</p>	
							<p>APPROVED BY: NAGAI K.</p>		<p>DWG NO: PAC2-TV-QAF-018</p>	
<p>DESCRIPTION</p>			<p>BY</p>		<p>APP</p>		<p>ISSUE DATE: 15/SEP/2005</p>		<p>REV. NO</p>	
							<p>SCALE: 1/400</p>			



KEY PLAN

LAYOUT OF BEAMS OF BLOCK 2,3,6,7

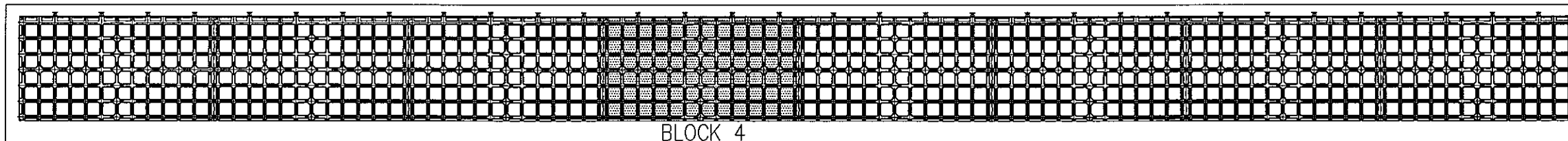
SC=1/400



NOTES:

- DIMENSIONS ARE IN [MM]

			<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>		<p>CAI MEP - THI VAI INTERNATIONAL PORT          CONSTRUCTION PROJECT</p> <p>PACKAGE 2          CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR          THI VAI AREA</p>		<p>DESIGNED BY:          BUI AN LOC</p> <p>DRAWN BY:          NGUYEN T. K. DIEM</p> <p>CHECKED BY:          YOSHIDA Y.</p> <p>APPROVED BY:          NAGAI K.</p> <p>ISSUE DATE:          15/SEP/2005</p> <p>SCALE:          1/400</p>		<p>SECTION:          CIVIL WORKS</p> <p>SUB-SECTION:          QUAY FACILITY</p> <p>TITLE OF DRAWING:          LAYOUT OF BEAM FOR BLOCK 2,3,6,7</p> <p>DWG NO:          PAC2-TV-QAF-019</p>		REV. NO
DESCRIPTION	BY	APP									



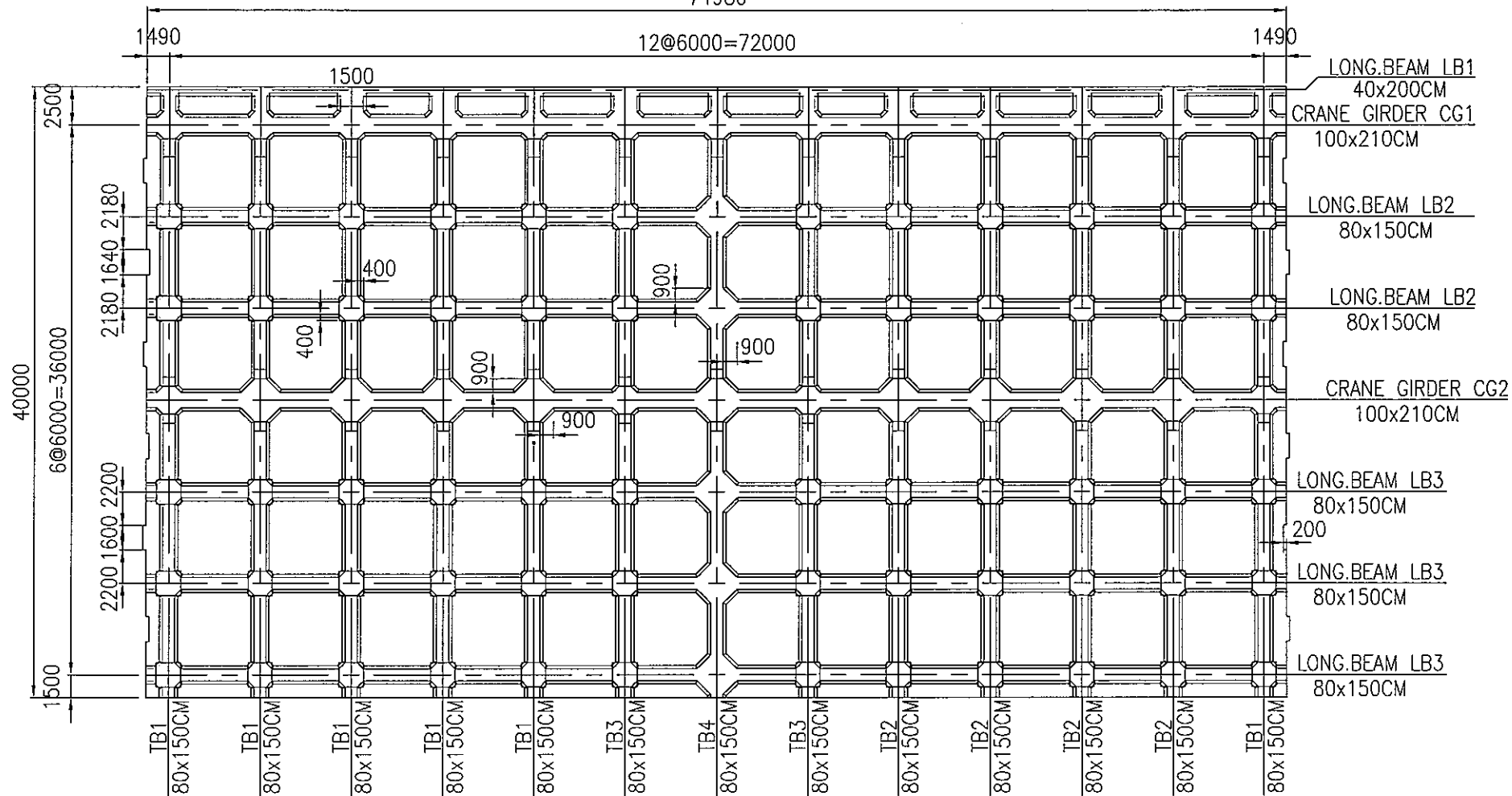
BLOCK 4

KEY PLAN

LAYOUT OF BEAMS OF BLOCK 4

SC=1/400

74980



NOTES:

- DIMENSIONS ARE IN [MM]

		<p><b>THE SOCIALIST REPUBLIC OF VIETNAM</b>  <b>MINISTRY OF TRANSPORT</b>  <b>PROJECT MANAGEMENT UNIT 85</b></p>		<p>CAI MEP - THI VAI INTERNATIONAL PORT          CONSTRUCTION PROJECT</p> <p>PACKAGE 2          CONSTRUCTION OF PORT FACILITIES AND BUILDINGS FOR          THI VAI AREA</p>		<p>DESIGNED BY:          BUI AN LOC</p> <p>DRAWN BY:          NGUYEN T. K. DIEM</p> <p>CHECKED BY:          YOSHIDA Y.</p> <p>APPROVED BY:          NAGAI K.</p> <p>ISSUE DATE:          15/SEP/2005</p> <p>SCALE:          1/400</p>		<p>SECTION:          CIVIL WORKS</p> <p>SUB-SECTION:          QUAY FACILITY</p> <p>TITLE OF DRAWING:          LAYOUT OF BEAM FOR BLOCK 4</p> <p>DWG NO:          PAC2-TV-QAF -020</p>		<p>REV. NO</p>
DESCRIPTION	BY	APP								