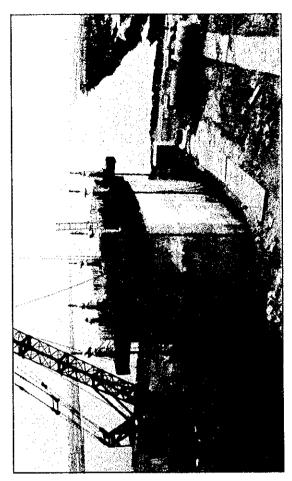
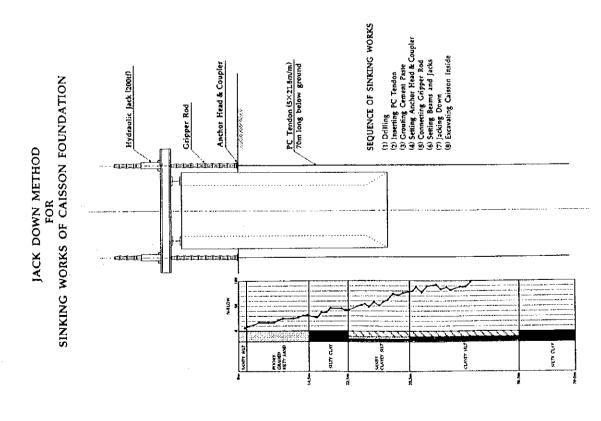
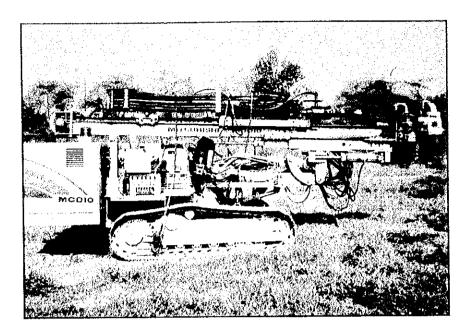
## JACKDOWN SYSTEM FOR CAISSON SINKING



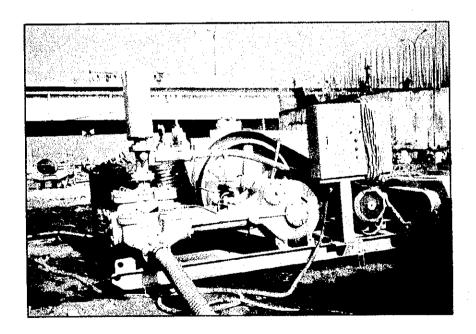




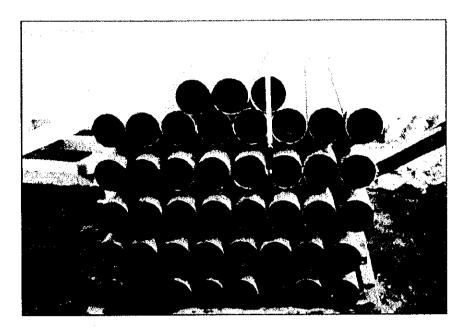




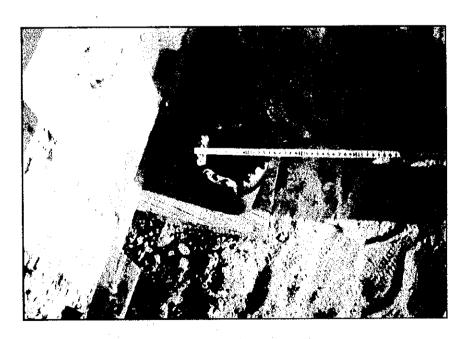
Drilling Machine



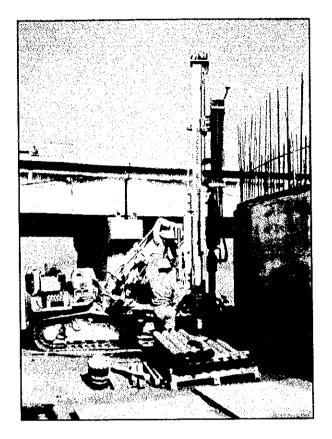
Drilling Pump



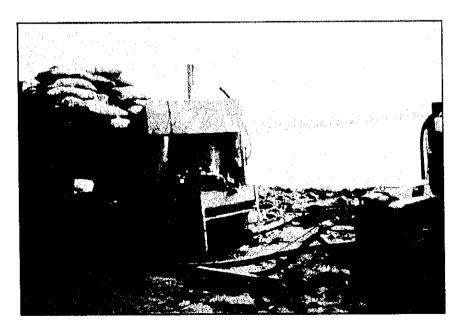
Casing Rod ( $\phi$  130m/m,  $\ell$ =1.5m)



Rod Crown ( $\phi$  140m/m)



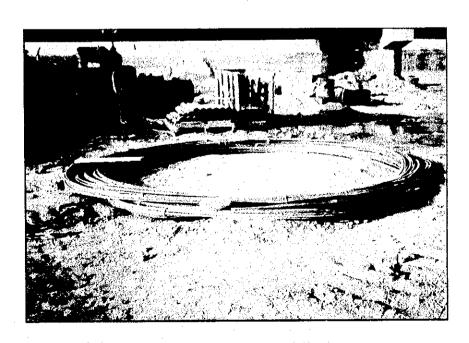
Drilling Operation



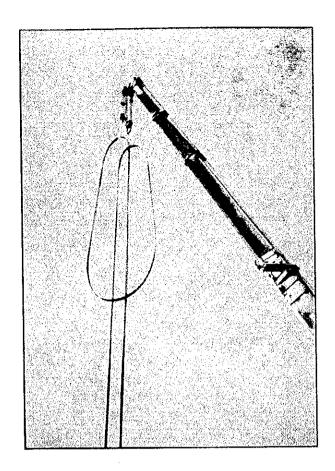
Grouting by Mortar Pump



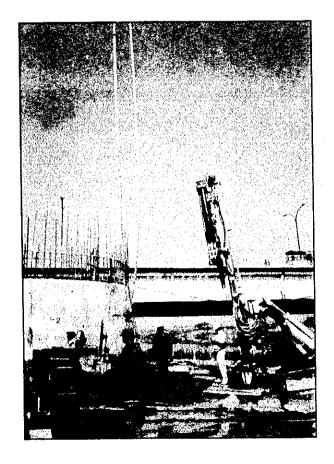
Ground Anchor Wire (HT Strand, \$\phi\$ 21.8m/m)

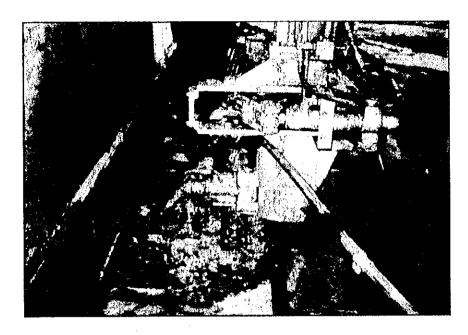


Ground Anchor Wire (HTStrand,  $\phi$  21.8m/m)



Inserting Anchar Wire

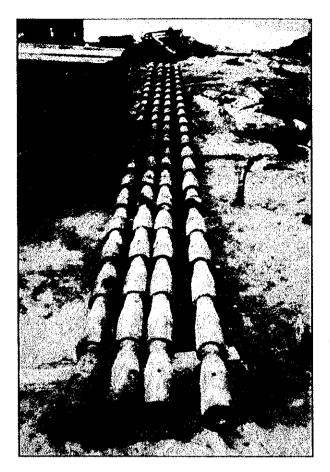




Grouting Mortor



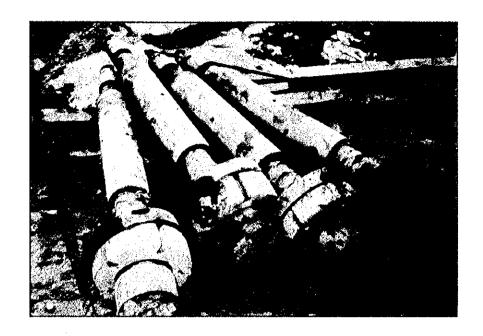
Anchor Wire End



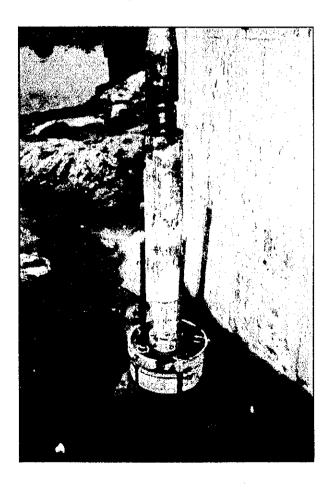
Gripper Rod (85-130m/m)

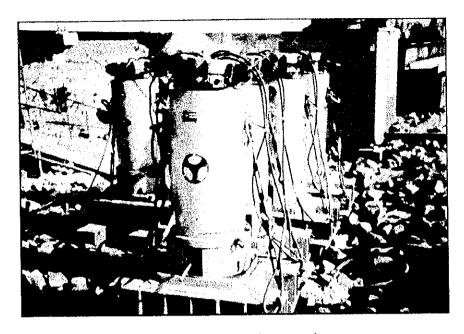


Pressuriging Beam

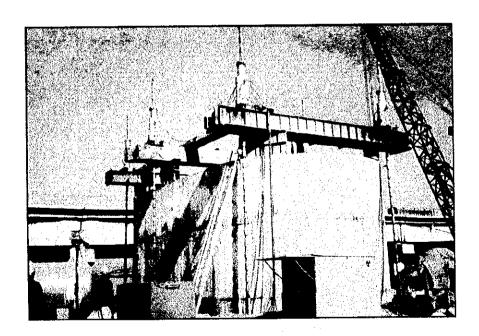


Adjustment Coupler and Adjustment Rod





Hydraulic Jack (200 Ton)

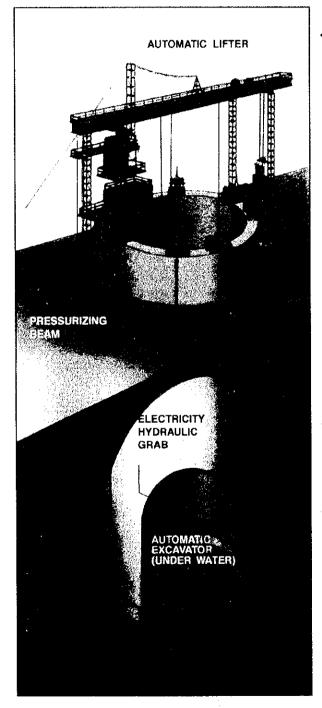


Jackdown Operation

# AUTOMATIC EXCAVATION AND SINKING CAISSON METHOD



## OPERATION AND EQUIPMENT FOR AUTOMATIC EXCAVATION OF CAISSON



COMMAND OPERATION

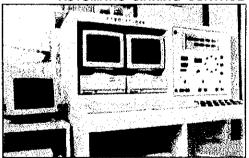




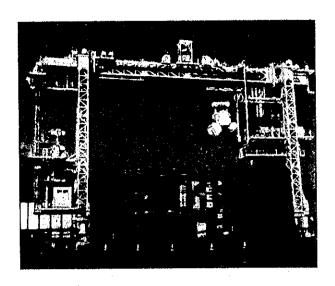
EXCAVATION AND LIFTING DATA

AUTOMATIC SINKING CONTROL

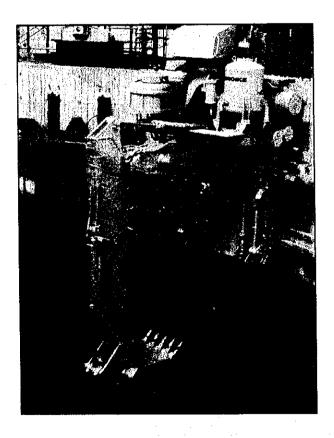
**AUTOMATIC SINKING CONTROL** 



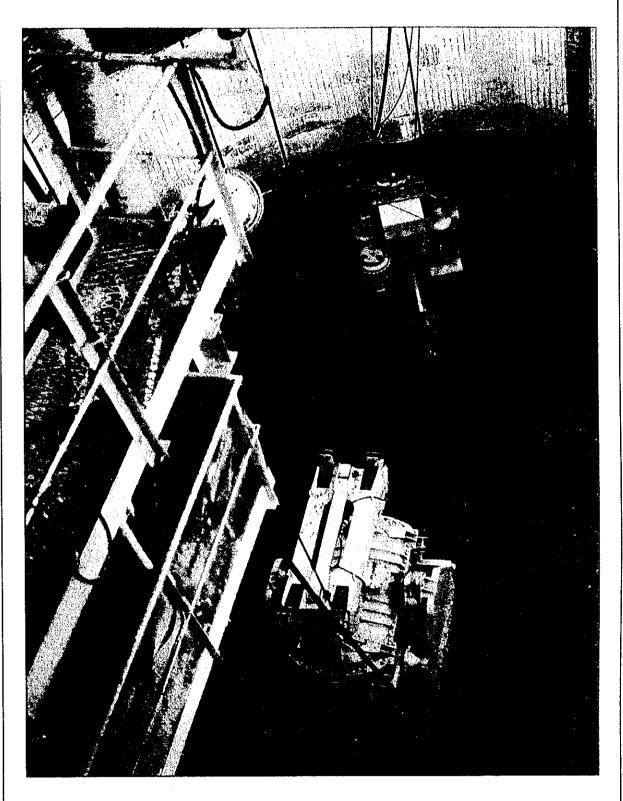
## AUTOMATIC EXCAVATION AND LIFTING SYSTEM



**AUTOMATIC LIFTER** 



AUTOMATIC EXCAVATOR
BY REMOTE CONTROL
The excavator moves on the rails
which are built-on the concrete
of the caisson stein.



AUTOMATIC CAISSON SINKING METHOD



## The Feasibility Study on The Can Tho Bridge Construction in Socialist Republic of Viet Nam

## **ANNEXURE 13**

## ALTERNATIVES OF MAIN BRIDGE

13.1	Alternatives of Main Bridge	1
13.2	General View of Hybrid Cable Stayed Bridge	.2
13.3	General View of Steel Cable Stayed Bridge (Alternative - 1)	3
13.4	General View of PC Cable Stayed Bridge (Alternative - 2)	ų.

#### 13.1 Alternatives of Main Bridge

The Study Team recommended the "Hybrid Cable Stayed Bridge" in the Report, and indicates the following two types of Cable Stayed Bridge as the alternatives, referring with the request of Vietnamese side in Steering Committee Meeting in 9<sup>th</sup> July 1998.

Recommended Structure: Hybrid Cable Stayed Bridge

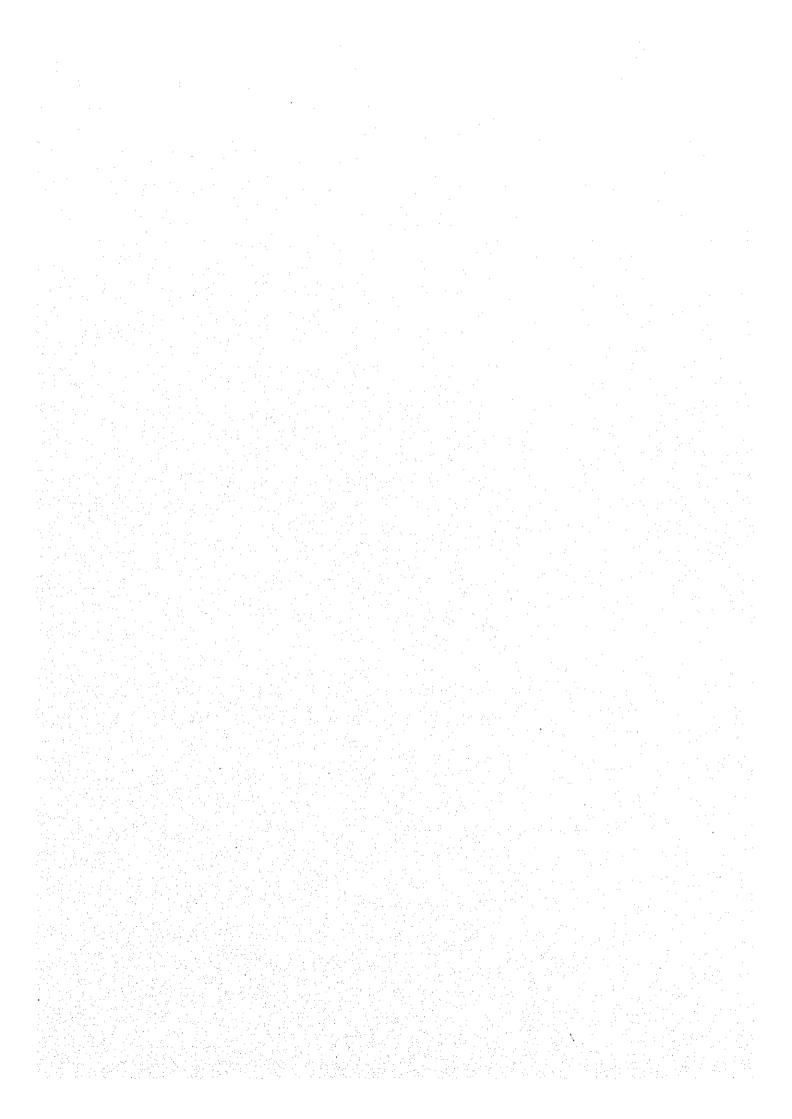
Alternative - 1:

Steel Cable Stayed Bridge

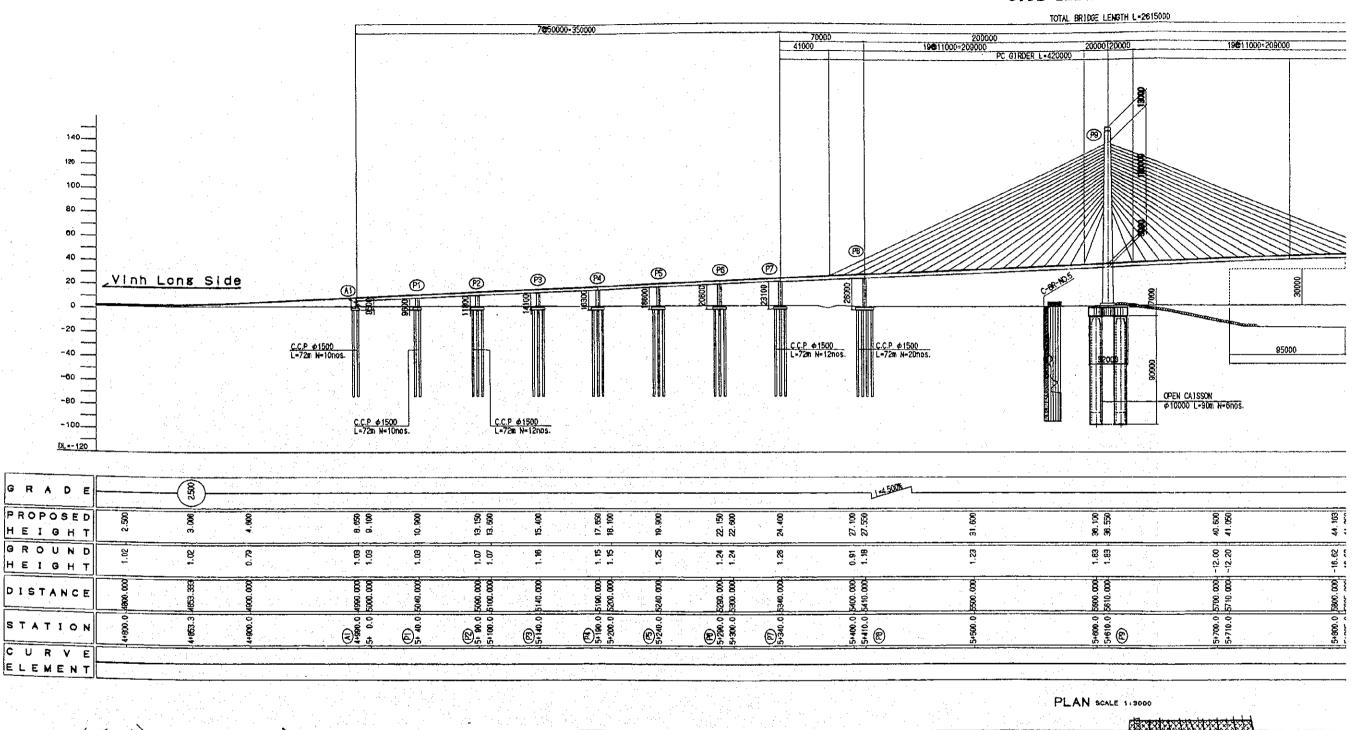
Alternative - 2:

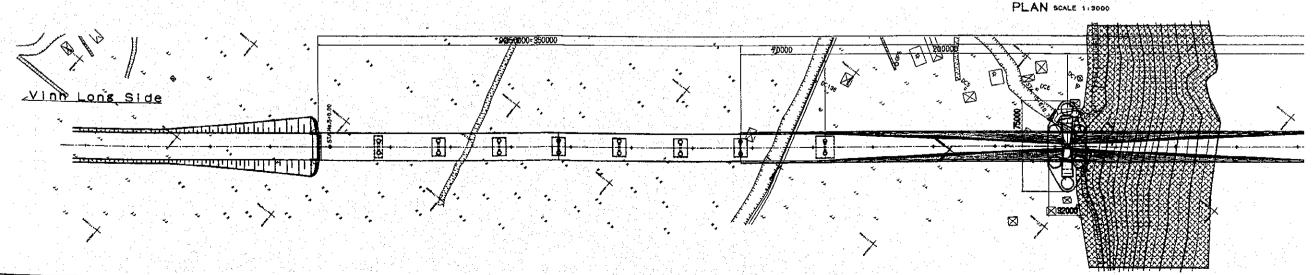
PC Cable Stayed Bridge

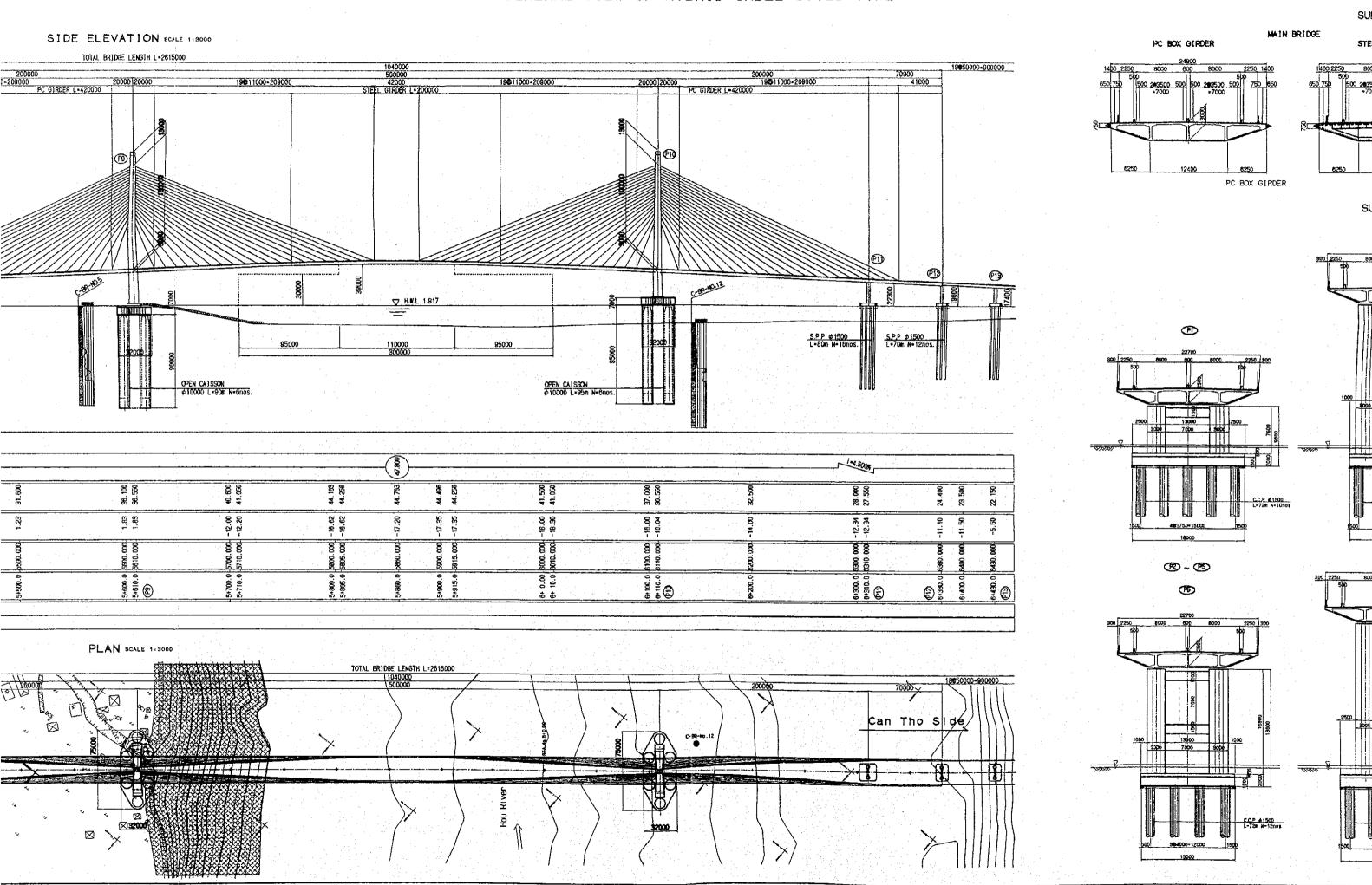
The general view of above 3 types is shown from 12.2 to 12.4 in the following.

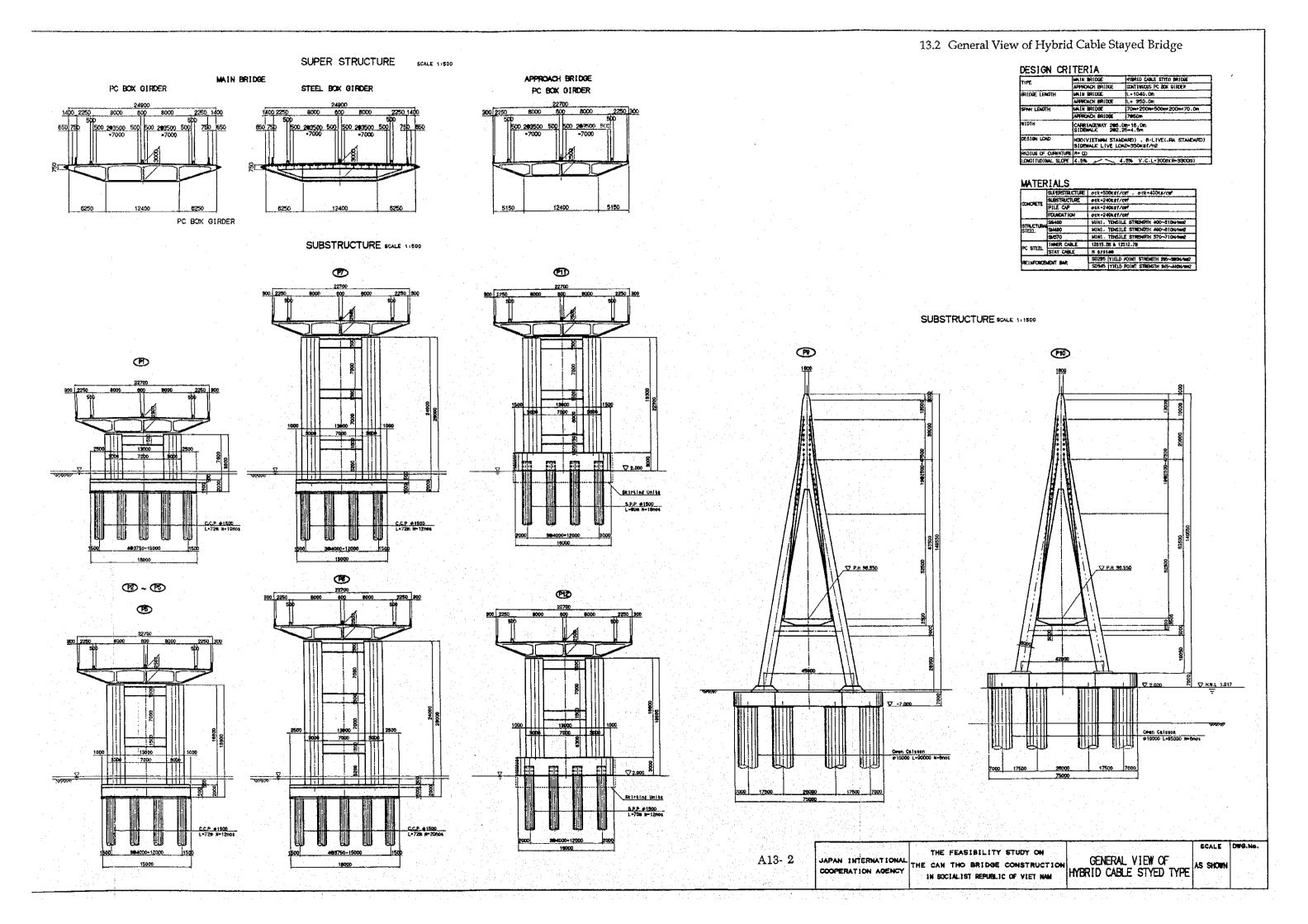


#### SIDE ELEVATION SCALE 1:3000

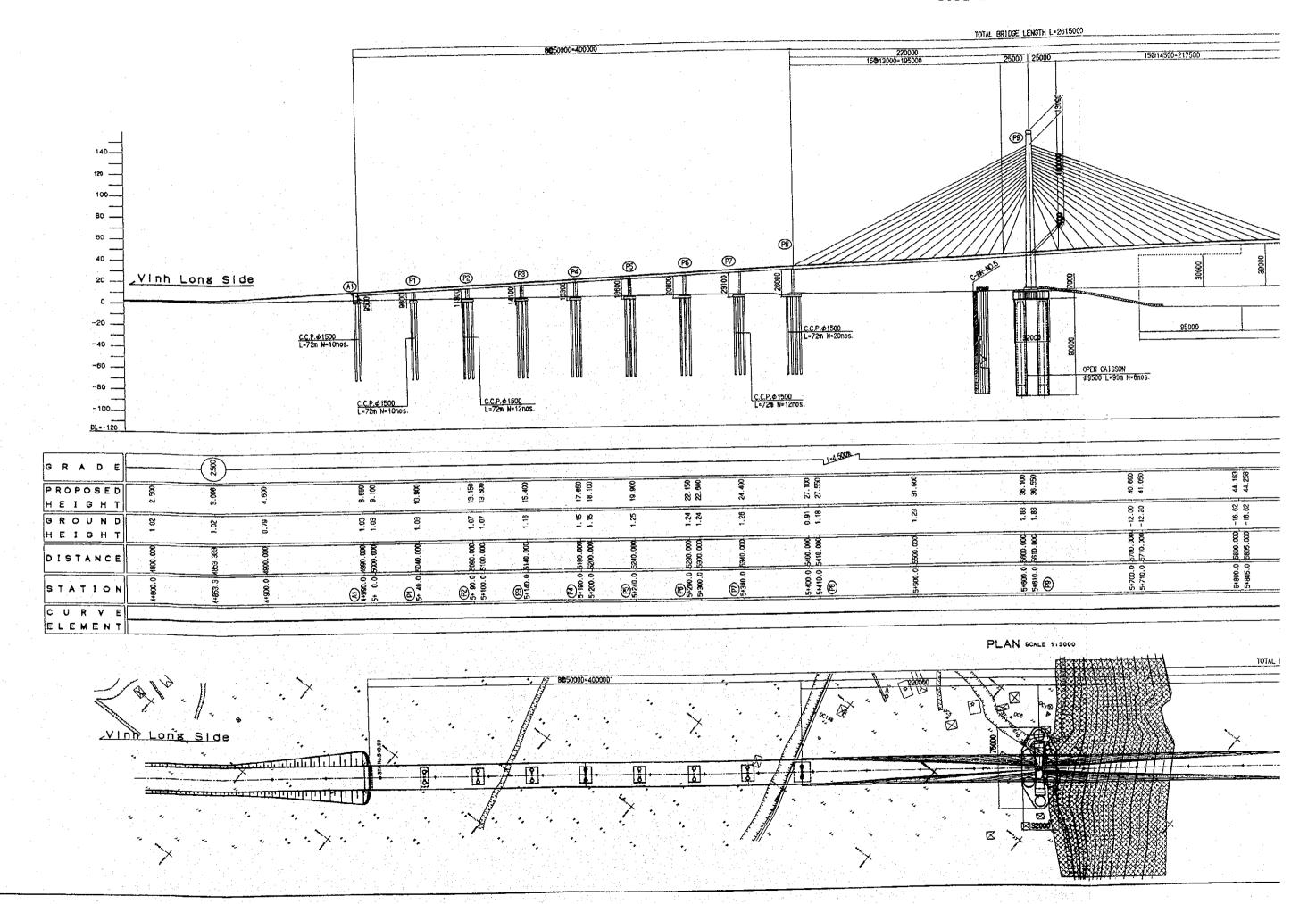




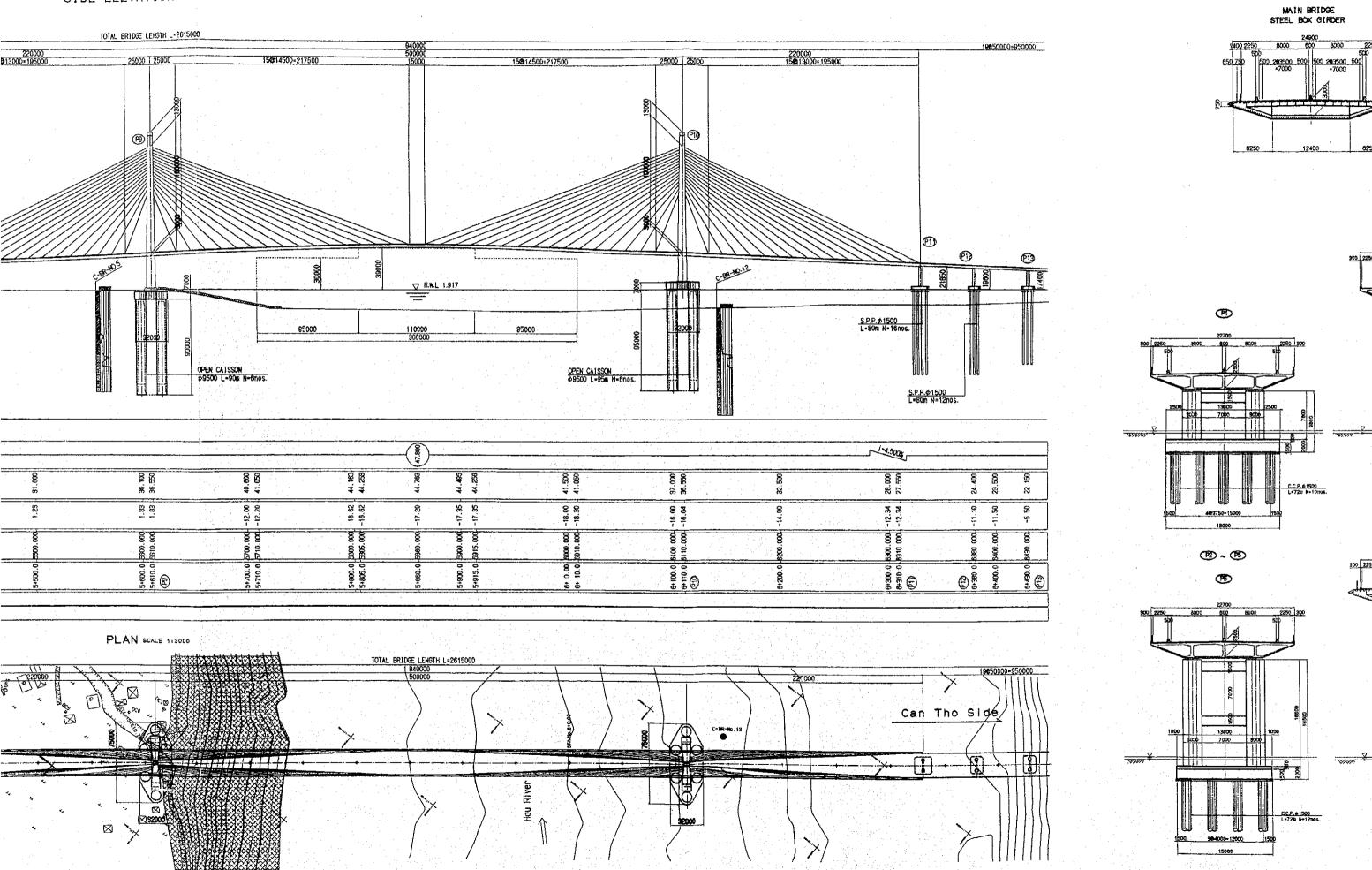


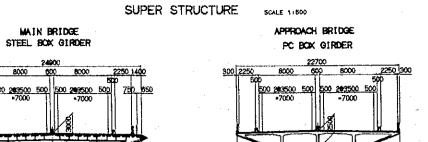


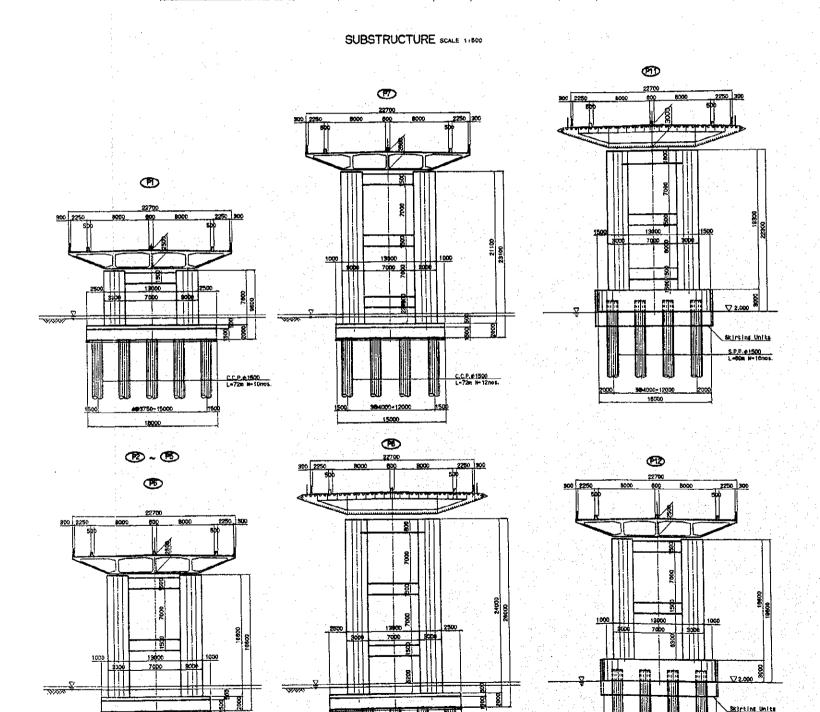
## SIDE ELEVATION SCALE 1:3000

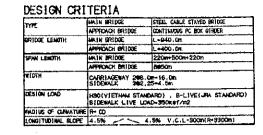


#### SIDE ELEVATION SCALE 1:3000

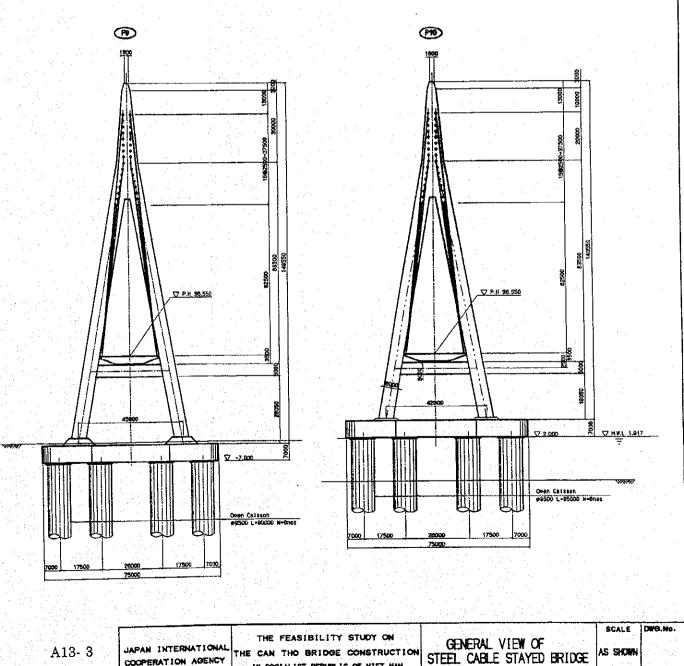








	SUPERSTRUCTURE	ack-500ket/cet , ack-400ke/cet
	SUBSTRUCTURE	ook=240ks1/cm
CONCRETE	PILE CAP	00K-240KS1/cm
	FOUNDATION	## 240K87/CM
	SS-100	MINI. TENSILE STREMEN 400-310N/RES
STRUCTURA STEEL	94490	MINI. TENSILE STREMSTH 490-610N/WW2
	94670	MINI. TENSILE STRENSTH 570~710N/HR2
	HNER CABLE	12615.29 & 12512.78
PC STEEL	STAY CABLE	H system
REINFORCEMENT BAR		S0295 YIELD POINT STRENGTH 295-590N/MIS
		SD945 YIELD POINT STRENGTH 945-44DN/WH

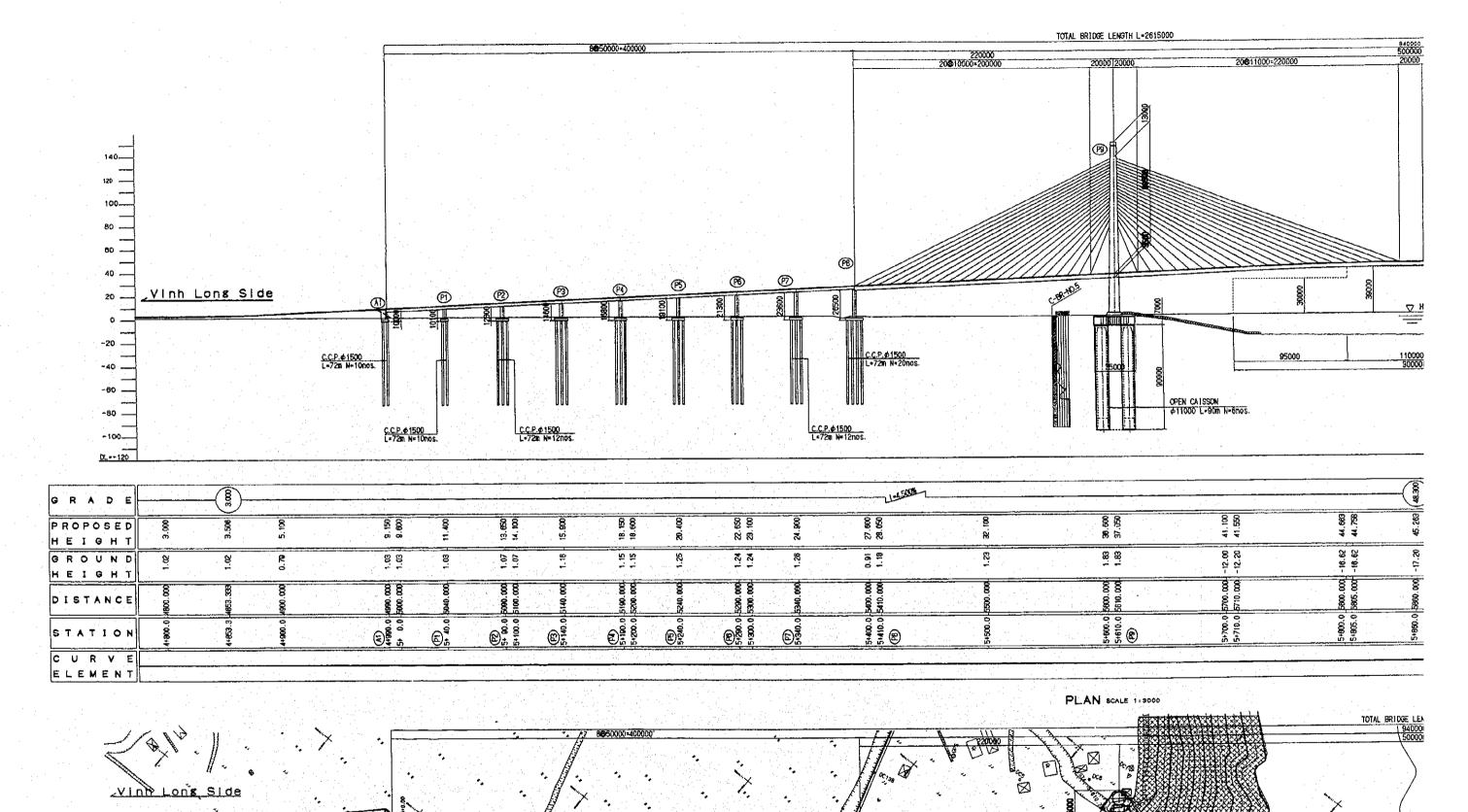


IN SOCIALIST REPUBLIC OF VIET NAM

COOPERATION AGENCY

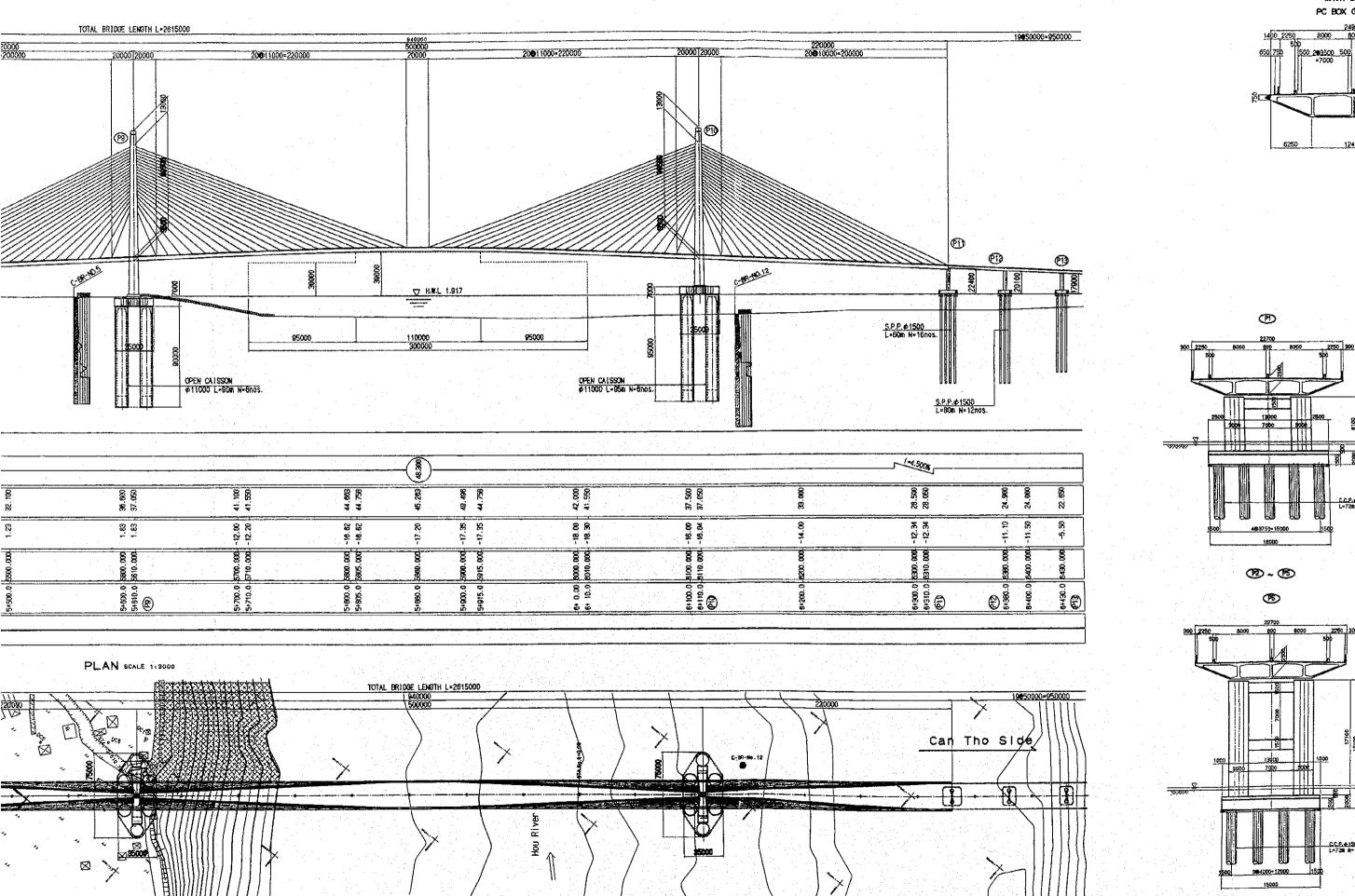
SUBSTRUCTURE SCALE 1:1500

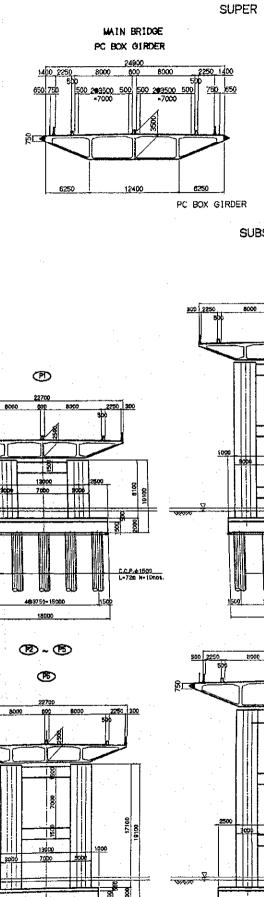
#### SIDE ELEVATION SCALE 113000



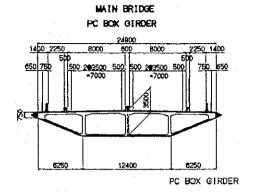
1

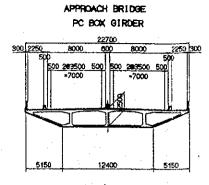
#### SIDE ELEVATION SCALE 1/8000











SUBSTRUCTURE SCALE 1:500



	MAIN BRIDGE	PC CABLE STAYED BRIDGE	
रभन्द	APPROACH BRIDGE	CONTINUOUS PC BOX GIRDER	
BRIDGE LENGTH	MAIN BRIDGE	L-940.0m	
	APPROACH BRIDGE	L=400 .0m	
SPAN LEIGTH	MAIN PRIDGE	220m+500m+220m	
	APPROACH EREDGE	8850zi	
WIDTH	CARRIAGENAY 285.0m-16.0m SIDEMALK 282.25-4.5m		
DESIGN LOND	H30(Y(ETHAN STANDARD) , 8-LIVE(JRA STANDARD) SIGNALK LIVE LOAD-390keF/m2		
RADIUS OF CURVATURE	#- CO		
LONG!TUDINUL SLOPE	4.5%	4.5% V.C.L • 300m(R=3300m)	

#### MATERIALS

MAY I CI	ZIVP3	
	SUPPRESENTATION	ack-500ksf/csf , ack-400ks/csf
	SUBSTRUCTURE.	ook=240ket/cef
CONCRETE	PILE CAP	pek=240k81/cm²
ŀ	FOUNDATION	ack-240kst/cm
	INNER CABLE	125年、20 4 12512.78
PC STEEL	STAY CABLE	H system
		SD206  YIELD POINT STRENGTH 205-990N/NK2
the territory		

