

4 Minutes of Discussion

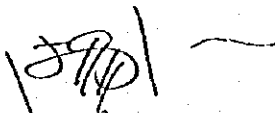
Minutes of Discussion
on
The Study
on
The Project for Construction of Pakse Bridge
in
The Lao People's Democratic Republic

In response to a request from the Government of the Lao People's Democratic Republic (hereinafter referred to as "the Lao PDR"), the Government of Japan has decided to conduct a study on the Project for Construction of Pakse Bridge (hereinafter referred to as "the Project") in the Lao PDR and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA") succeeding to the study results of "The Feasibility Study on the Construction of the Mekong Bridge at Pakse in the Lao People's Democratic Republic" which had been also conducted by JICA. After the assessment of the data and information obtained through the study, JICA has prepared the Draft Study Report on the Project.


In order to explain and consult the Lao PDR on the components of the Draft Study Report, JICA sent to the Lao PDR a Study team headed by Mr. Haruo SUZUKI, Managing Director, Osaka International Center, JICA, which is scheduled to stay in the country from June 9 to 15, 1996.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Vientiane, June 14, 1996



Haruo SUZUKI
Leader
JICA Study Team



Sommad PHOLSENA
Director
Department of Communication
Ministry of communication,
Transportation, Post and Construction
(MCTPC)

ATTACHMENT

1. OBJECTIVE OF THE PROJECT

The Project aims at constructing a bridge over the Mekong river at Pakse in order to facilitate efficient road transport to the connecting section between NR 10 and NR 13S where river crossing is being ensured by ferries. It is expected that this construction project will contribute to socio-economic development not only in the southern region of Laos, but also in Indochina as a whole because NR 10 and NR 13S are international roads leading directly to Thailand and Cambodia respectively.

2. PROJECT IMPLEMENTING AGENCY

The Ministry of Communication, Transport, Post and Construction is responsible for the administration of execution of the Project.

3. SITE TO BE COVERED UNDER THE PROJECT

The site of the proposed bridge is shown in Annex-1.

4. DRAFT DESIGN

The Lao PDR side has in principal agreed to the components of the Draft Study Report proposed by the Team.

5. JAPANESE GRANT AID PROGRAM

The Lao PDR side has understood the system of Japanese Grant Aid Program explained in Annex-2.

6. NECESSARY MEASURES TO BE TAKEN BY THE LAO PDR SIDE

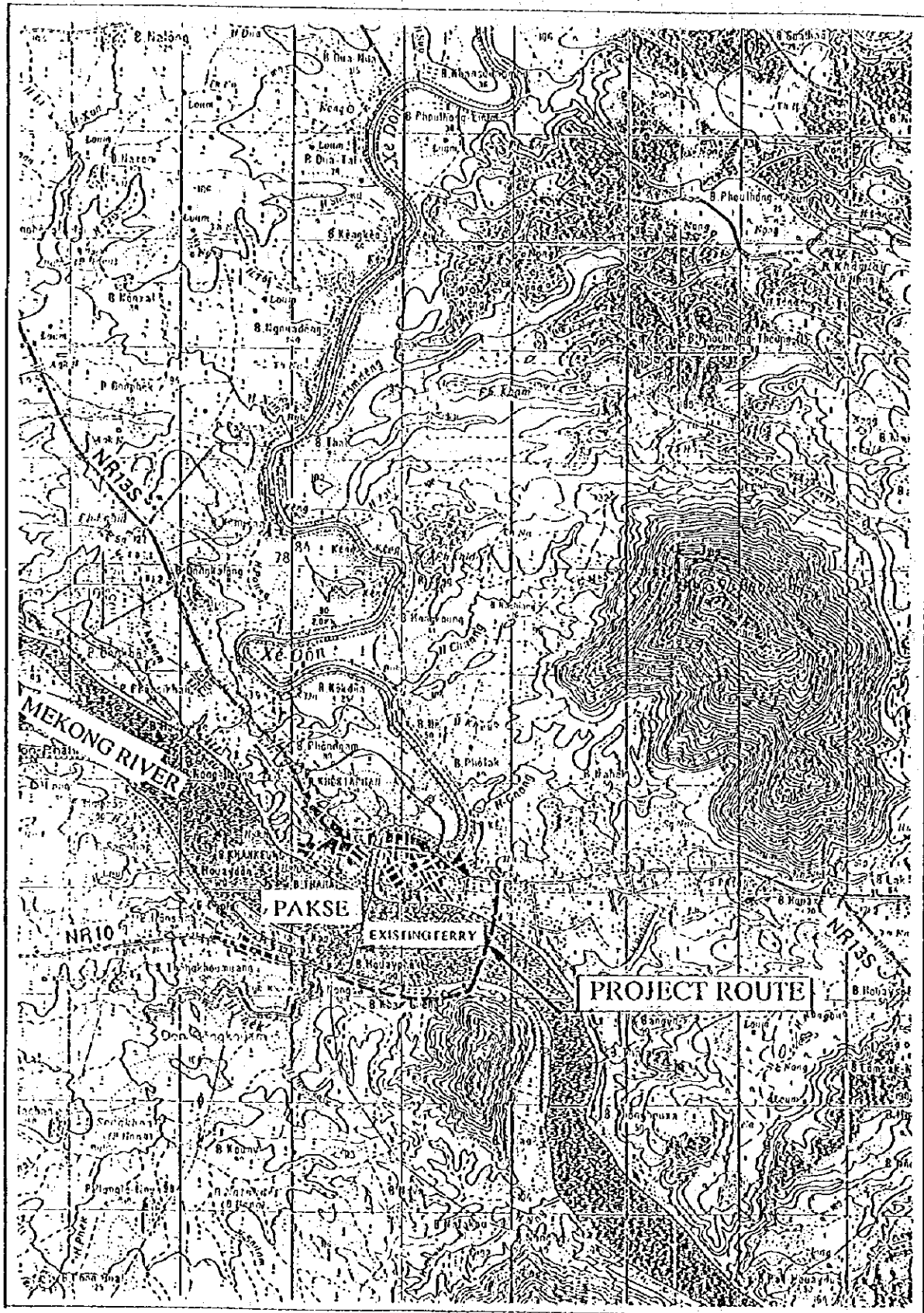
The Lao PDR side will take necessary measures described in Annex-3 for smooth implementation of the Project on condition that the Grant Aid by the Government of Japan is extended to the Project, including to secure the land and its clearance not later than probable commencement date of the construction.

7. FURTHER SCHEDULE OF THE STUDY

JICA will complete the Study Report and forward it to the Lao PDR by September 1996.

ANNEX-1

THE SITE OF THE PROPOSED BRIDGE



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ANNEX 2 JAPAN'S GRANT AID SCHEME

1. *Grant Aid Procedures*

- 1) Japan's Grant Aid Program is executed through the following procedures.

Application	(Request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The Notes exchanged between the Government of Japan and recipient country)

- 2) Firstly, the application or request for a Grant Aid Project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the Project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. *Basic Design Study*

- 1) Contents of the Study
The aim of the Basic Design Study (hereinafter referred to as "the Study") conducted by JICA on the requested project (hereinafter referred to as

"the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the requested project and also institutional capacity of agencies concerned of the recipient country necessary for the project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project.
- e) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For the smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firm (s) based on proposal submitted by interested firms. The Firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

A.2-2

3. *Japan's Grant Aid Scheme*

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultants firm(s) and (a) contractor(s) and final payment to them must be completed.

However in case of delay in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the Products or services of the third country.

However the prime contractors, namely, consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality).

5) Necessary of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts

shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

6) **Undertakings required of the Government of the Recipient Country**
In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure building prior to the procurement in case the installation of the equipment.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- (6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

7) **"Proper Use"**

The recipient country is to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

8) **"Re-export"**

The products purchased under the Grant Aid should not be re-exported from the recipient country.

9) **Banking Arrangements (B/A)**

- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by

making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

- b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

7/10

A.2-5

1/1

ANNEX - 3

NECESSARY MEASURES TO BE TAKEN BY THE LAO PDR SIDE

Following necessary measures should be taken by the Lao PDR side on condition that the Grant Aid by the Government of Japan is extended to the Project:

1. To provide data and information necessary for the Project
2. To secure the land necessary for the execution of the Project, such as the land for bridge, temporary offices, working areas, storage yards and other.
3. To clear the site prior to the commencement of the constructing.
4. To make passable all roads and bridges leading to the Project sites before the commencement of inland transportation of materials and equipment.
5. To bear commissions to the Japanese foreign exchange bank for its banking service based upon the Banking Arrangement, namely the advising commission of the "Authorization to Pay" and payment commission.
6. To ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation in the Lao PDR and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid.
7. To exempt Japanese juridical and physical nationals engaged in the project from customs duties, internal taxes and other fiscal levies which may be imposed in the Lao PDR with respect to the supply of the products and services under the verified contracts.
8. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under verified contract such facilities as may be necessary for their entry into the Lao PDR and stay therein for the performance of their work.
9. To provide necessary permissions, licenses and other authorization for implementing the Project, it necessary.
10. To maintain and use properly and effectively the facilities constructed under the Project.
11. To coordinate and solve any issues related to the project which may be raised from third parties or inhabitants in the Project area during implementation of the Project.

A.3-1

AP- 12

5. Cost Estimation Borne by the Recipient Country

Land Acquisition and Compensation Cost

Category	Kind	Unit Price (US \$)	Quantity	Cost (US \$)
Buildings	1-SW	7,000	36	252,000
	1-SWC	8,000	1	8,000
	2-SW	10,000	2	20,000
	2-SWC	14,000	3	42,000
	1-SC	25,000	2	50,000
	2-SC	45,000	0	0
	3-SC	50,000	0	0
	Others			112,000
	Subtotal			48
Water	Deep Wells	1,200	0	0
Agricultur.	Rice Field	\$80/ha	70,000m ²	560
Trees	Tamarind	25	1	25
	Teak	110	10	1,100
	Mango	30	3	90
	Palm	15	1	15
	Subtotal			15
TOTALS				485,790

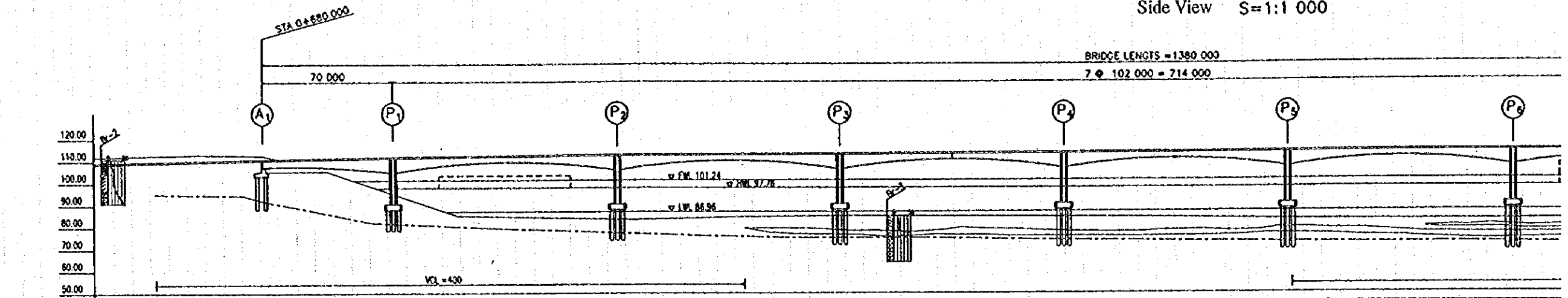
Note 1-SW : One story wooden house
 1-SWC : One story wooden and concrete house
 2-SW : Two stories wooden house
 1-SC : One story concrete house

6. DRAWINGS OF THE PROJECT

List of Drawings

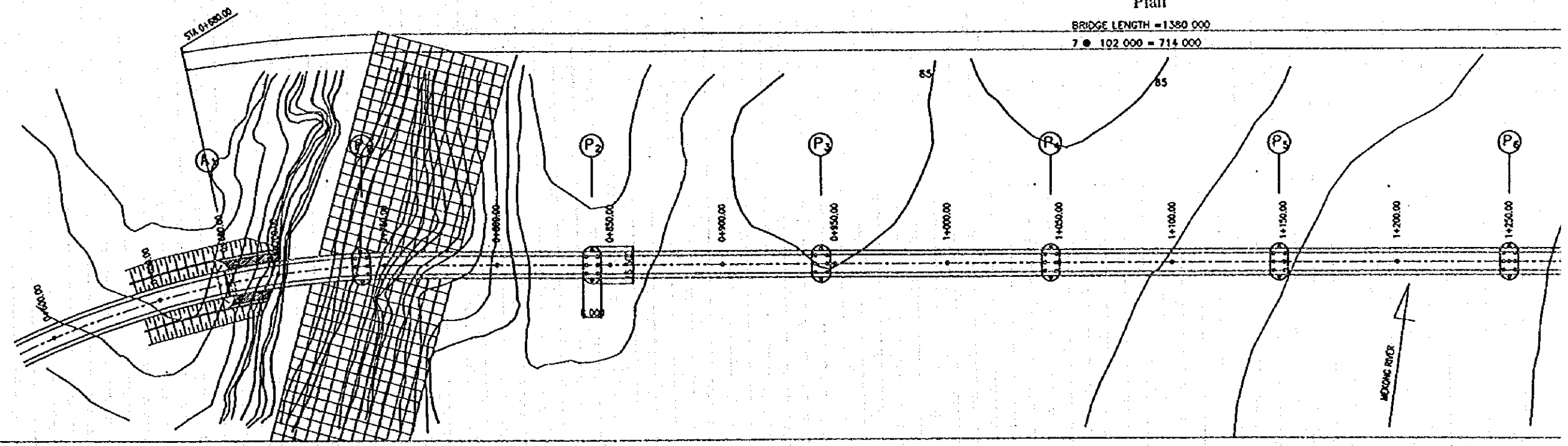
General View (1).....	AP-14
General View (2).....	AP-15
Plan of the Proposed Route (1)	AP-16
Plan of the Proposed Route (2)	AP-17
Plan of the Proposed Route (3)	AP-18
Profile of the Proposed Route (1).....	AP-19
Profile of the Proposed Route (2).....	AP-20
Profile of the Proposed Route (3).....	AP-21
Dimension of Substructure (1).....	AP-22
Dimension of Substructure (2).....	AP-23
Dimension of Substructure (3).....	AP-24
Dimension of Substructure (4).....	AP-25
Box Culvert (1)	AP-26
Box Culvert (2)	AP-27

Side View S=1:1 000

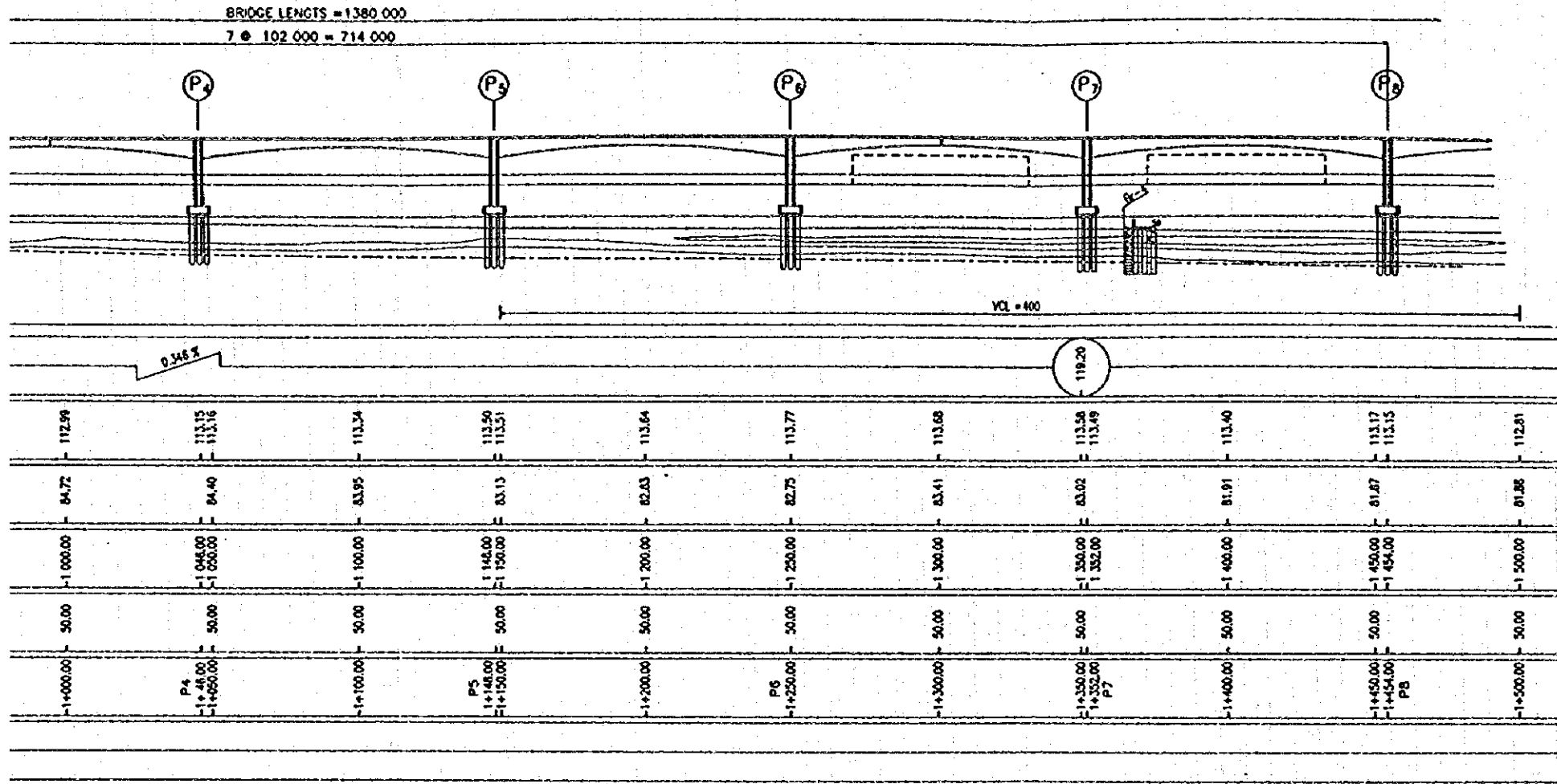


GRANDIENT	3.00 %		111.95		0.345 %																	
PROPOSED LEVEL	109.70	110.26	110.62	110.87	111.02	111.38	111.98	112.11	112.30	112.39	112.64	112.79	112.82	112.99	113.15	113.16	113.34	113.50	113.51	113.64	113.77	
GROUND LEVEL	113.06	112.58	108.71	103.43	91.72	88.54	85.00	84.16	83.43	84.57	85.00	84.72	84.40	83.95	83.13	82.83	82.83	82.75	82.75	82.75	82.75	82.75
ACCUMATED DISTANCE	650.00	679.26	700.00	715.11	740.00	750.00	800.00	815.11	842.00	850.00	900.00	944.00	950.00	1000.00	1046.00	1050.00	1100.00	1148.00	1150.00	1200.00	1250.00	1260.00
DISTANCE	50.00	29.26	20.74	15.11	34.89	50.00	15.11	34.89	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
STATION	0+650.00	(EC1) 0+679.26 0+690.00 A1	0+700.00	(EC1) 0+715.11	P1 0+740.00	0+750.00	0+800.00	(EC1) 0+815.11	P2 0+842.00	0+850.00	0+900.00	P3 0+944.00	0+950.00	1+000.00	P4 1+046.00	1+050.00	1+100.00	P5 1+148.00	1+150.00	1+200.00	1+250.00	P6 1+260.00
HORIZONTAL ALIGNMENT	<p> $R_1 = 111.95$ $R_2 = 111.95$ $R_3 = 111.95$ $R_4 = 111.95$ </p>																					

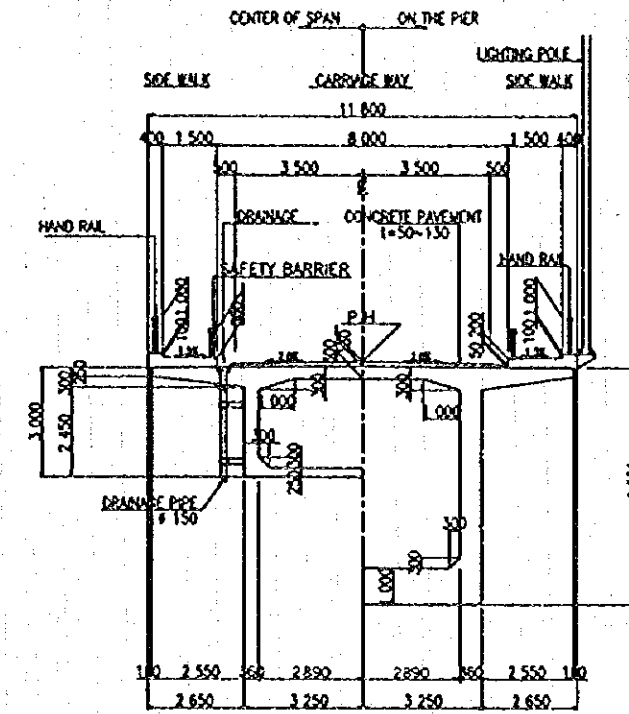
Plan



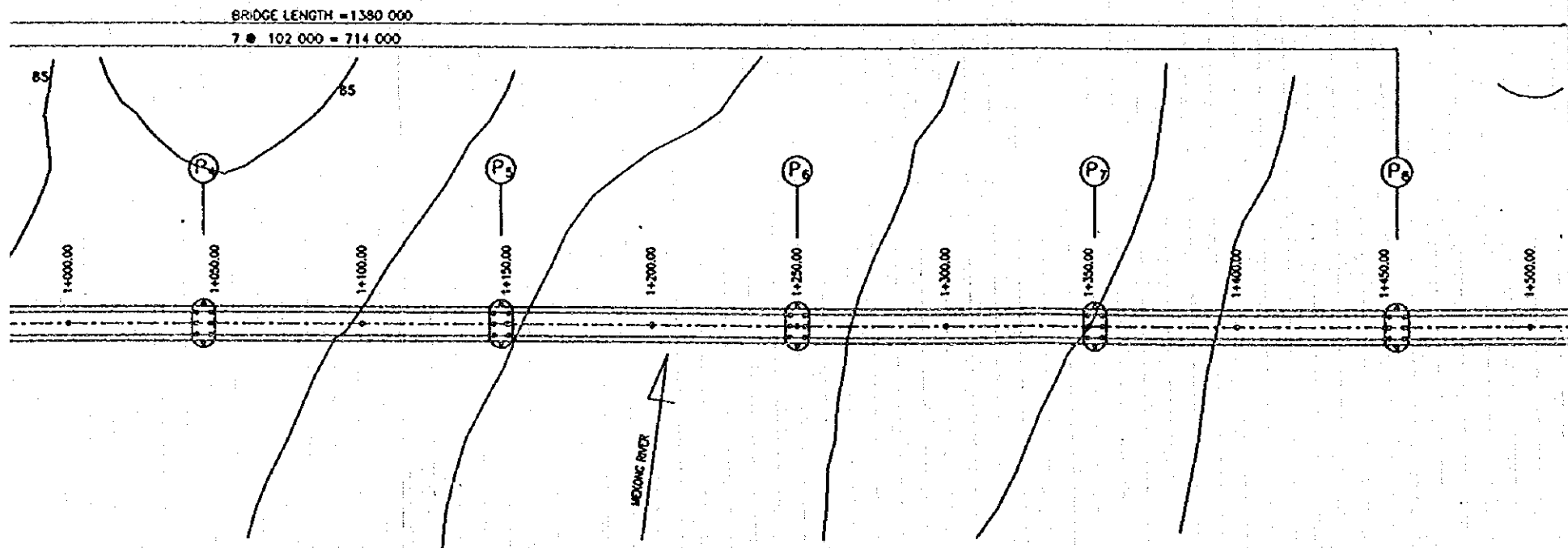
Side View S=1:1 000



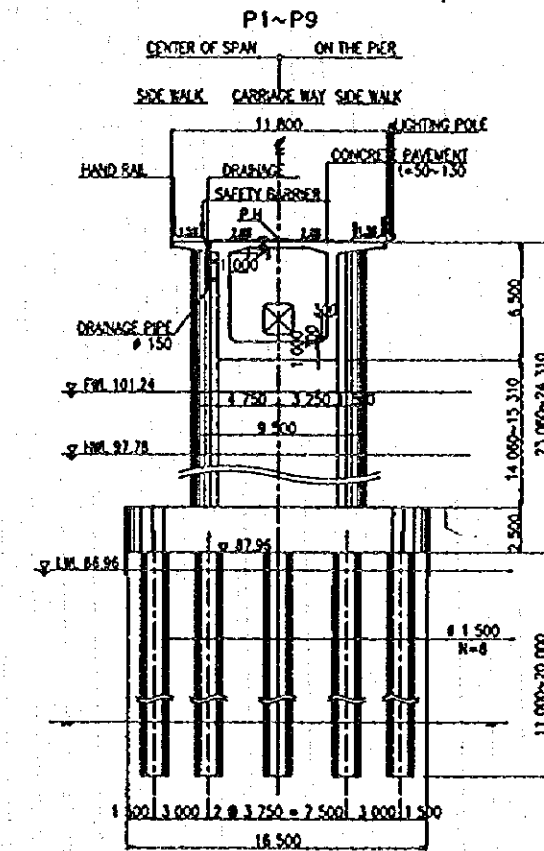
Cross Section of Superstructure S=1/100



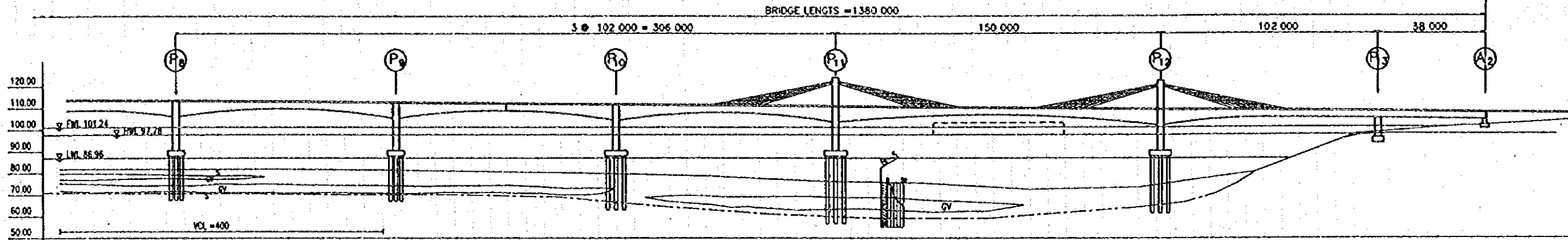
Plan



Cross Section of Pier S=1/200

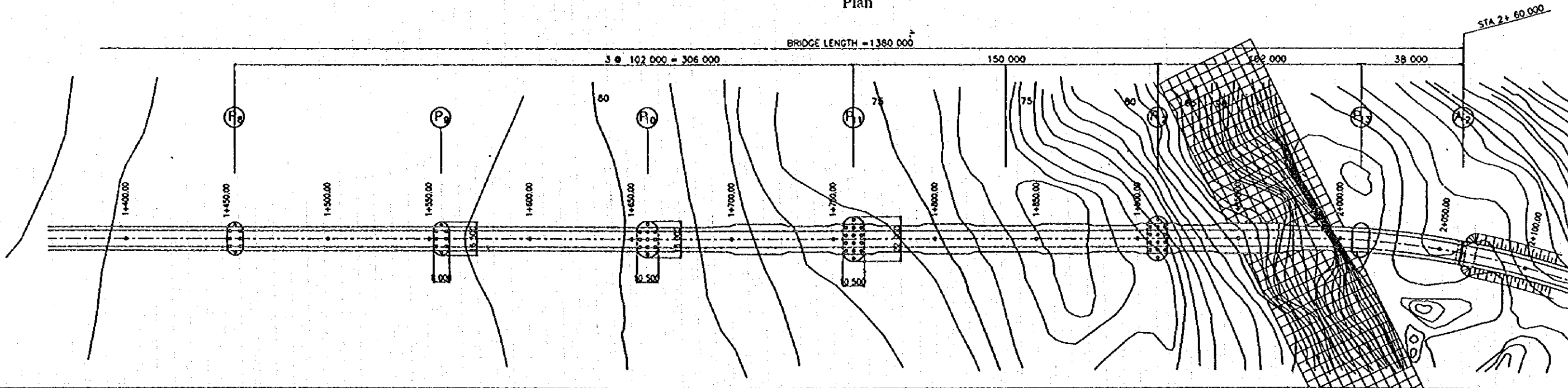


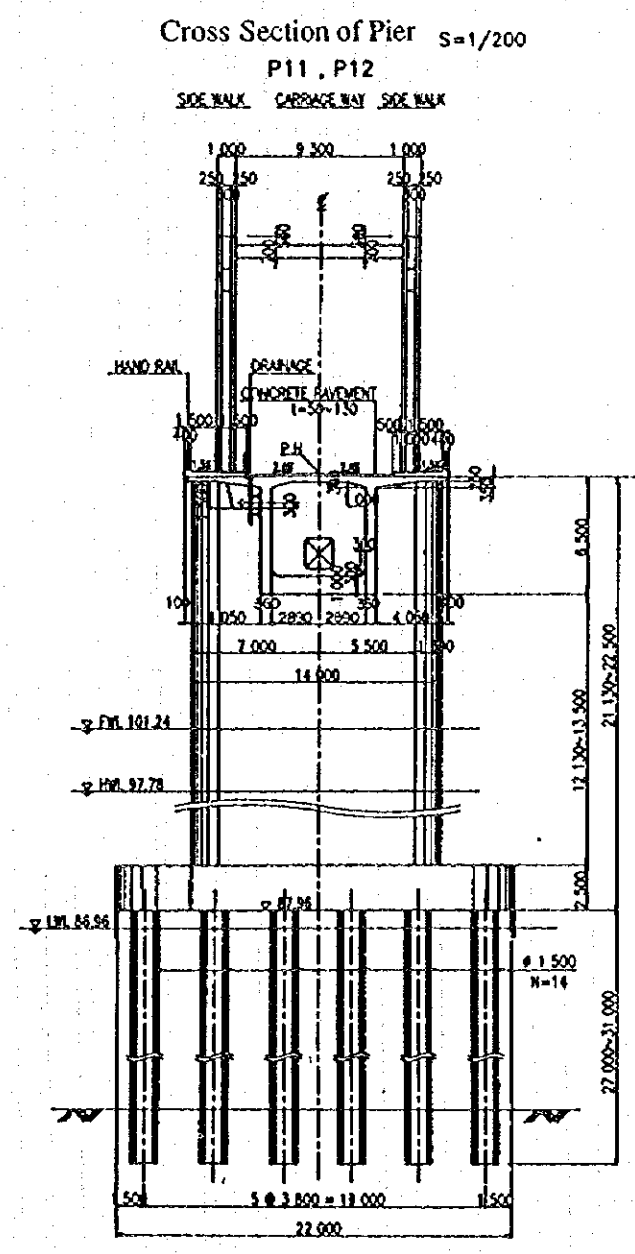
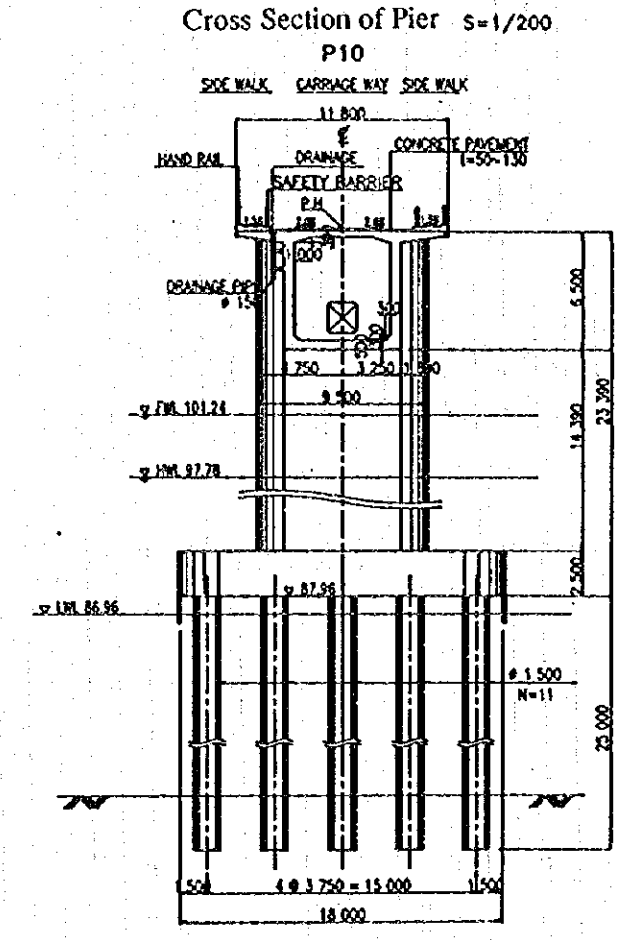
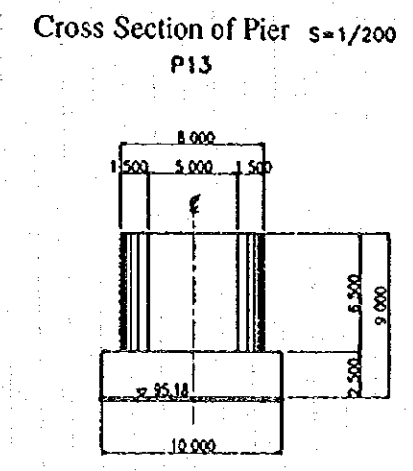
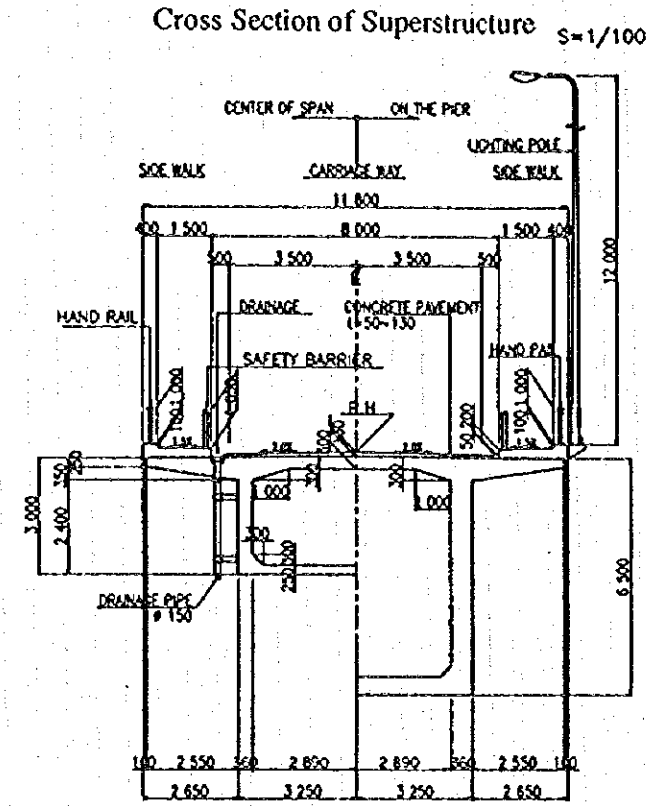
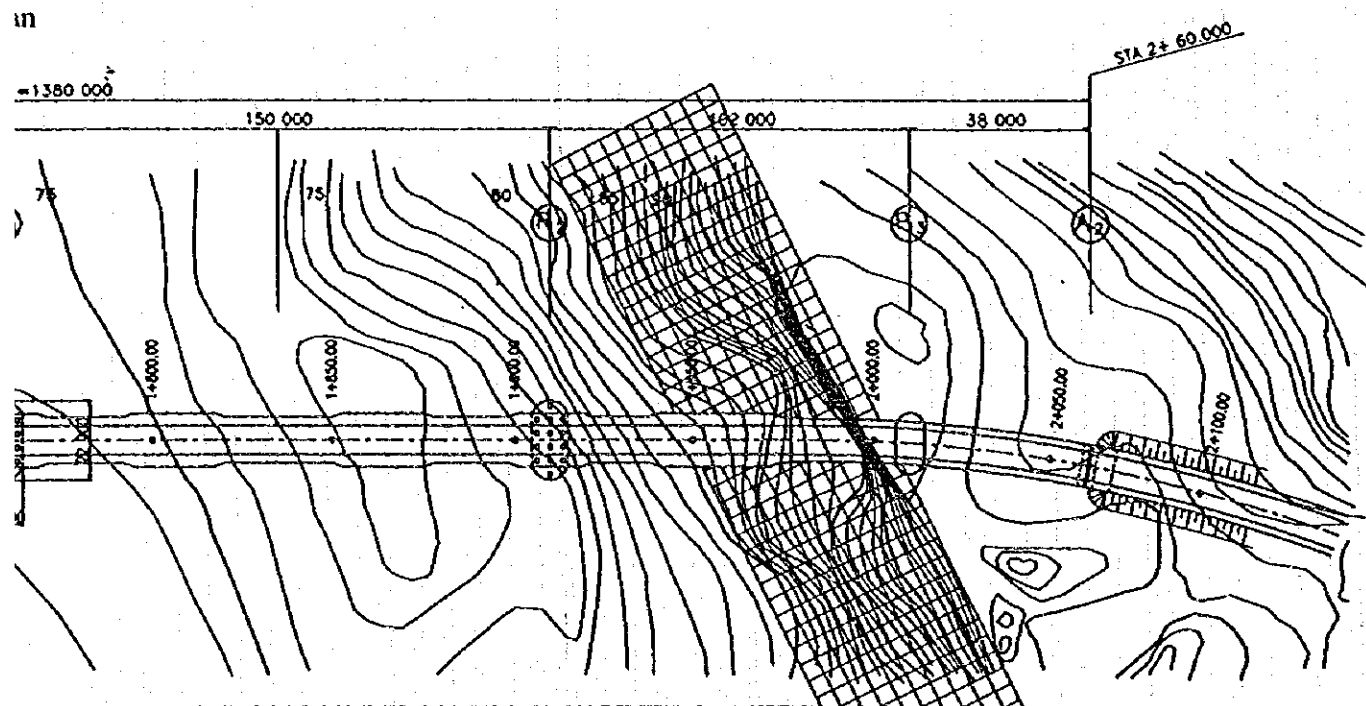
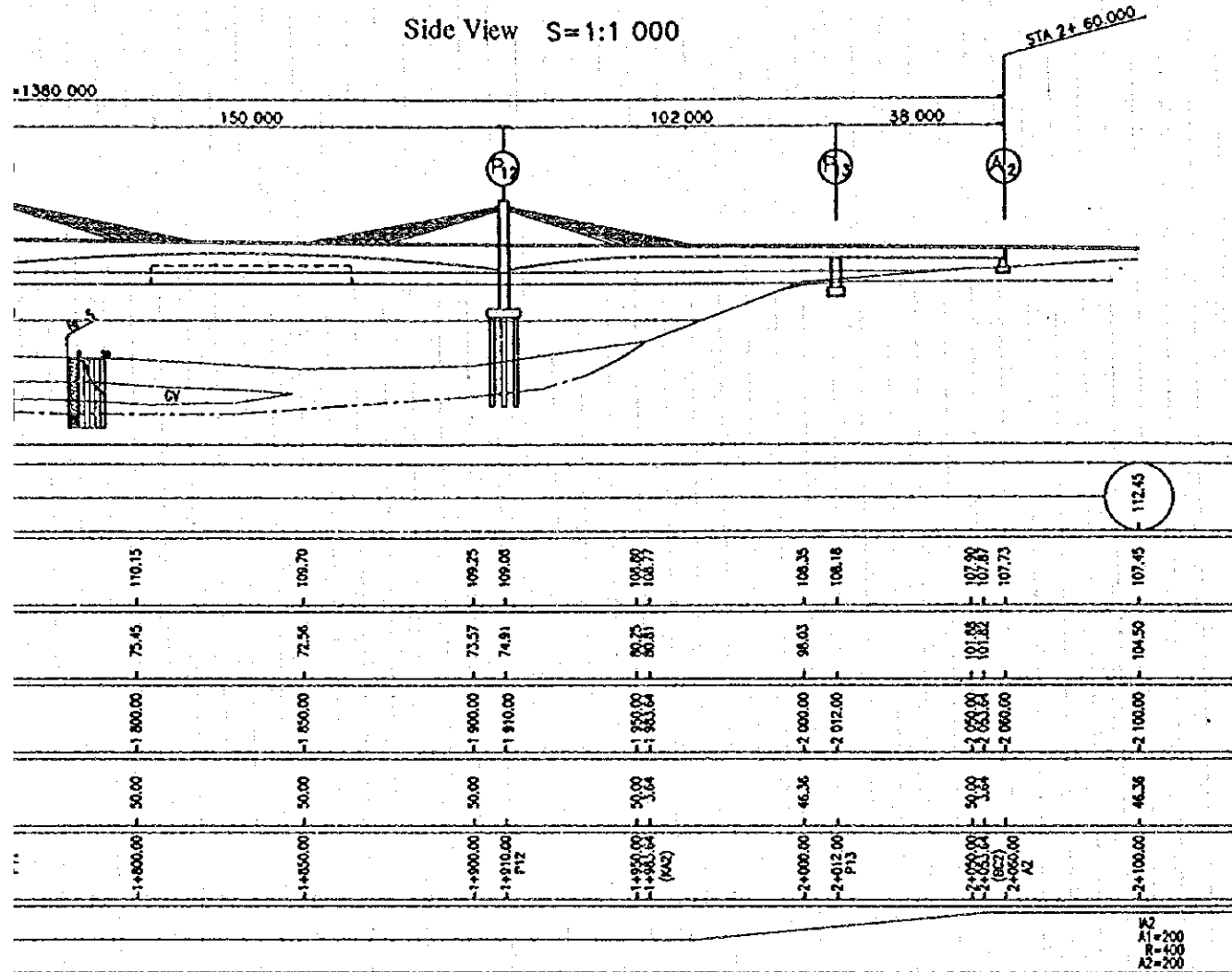
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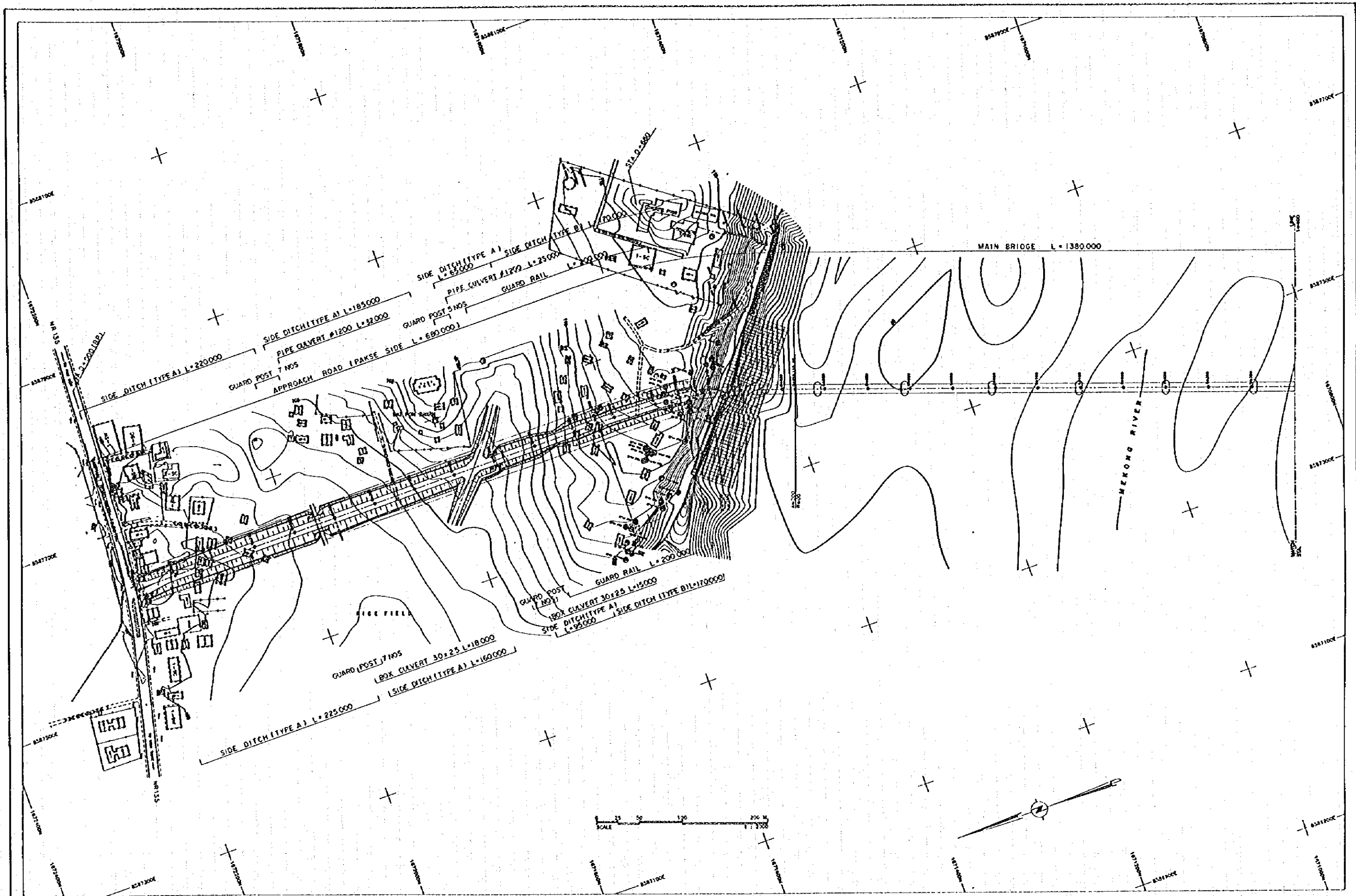


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GROUND LEVEL	81.91	81.87	81.88	81.52	80.70	79.87	78.73	78.49	78.45	77.56	73.57	74.91	80.25	80.13	80.03	80.03	80.03	80.03	80.03	80.03	80.03			
ACCUMATED DISTANCE	-1 400.00	-1 450.00	-1 454.00	-1 500.00	-1 550.00	-1 556.00	-1 600.00	-1 650.00	-1 658.00	-1 700.00	-1 750.00	-1 760.00	-1 800.00	-1 850.00	-1 900.00	-1 910.00	-1 950.00	-1 953.84	-2 000.00	-2 012.00	-2 050.00	-2 060.00	-2 100.00	
DISTANCE	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	46.36	46.36	50.00	50.00	46.36	
STATION	1+400.00	1+450.00	1+454.00	1+500.00	1+550.00	1+556.00	1+600.00	1+650.00	1+658.00	1+700.00	1+750.00	1+760.00	1+800.00	1+850.00	1+900.00	1+910.00	1+950.00	1+953.84	2+000.00	2+012.00	2+050.00	2+060.00	2+100.00	
HORIZONTAL ALIGNMENT																								

Plan







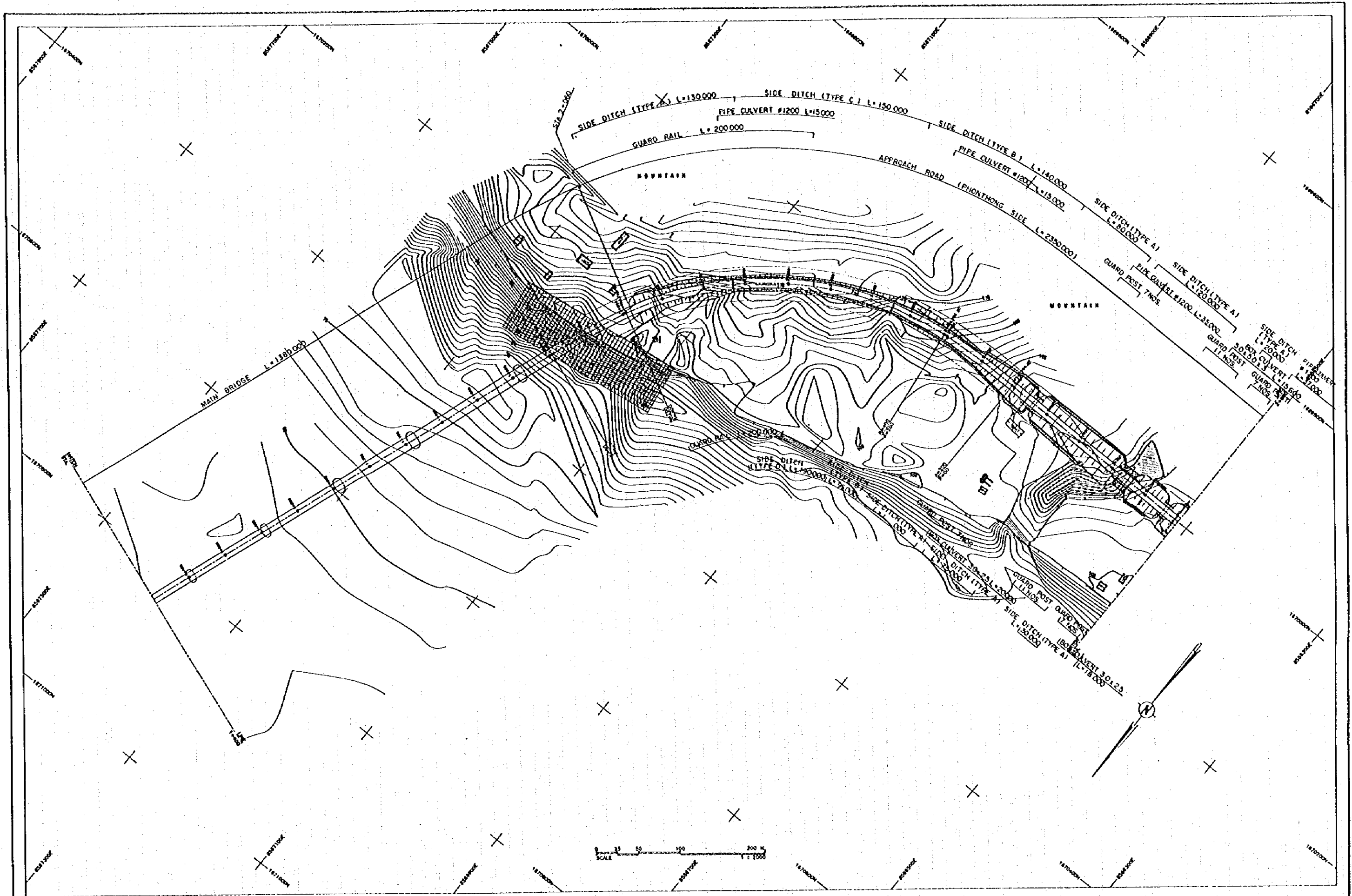
MINISTRY OF COMMUNICATION TRANSPORT POST AND CONSTRUCTION

THE STUDY ON THE PROJECT FOR CONSTRUCTION
OF PAKSE BRIDGE IN LAO PEOPLE'S DEMOCRATIC REPUBLIC

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

Plan of the Proposed Route (1)

DATE	SHEET No



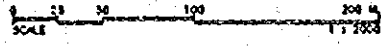
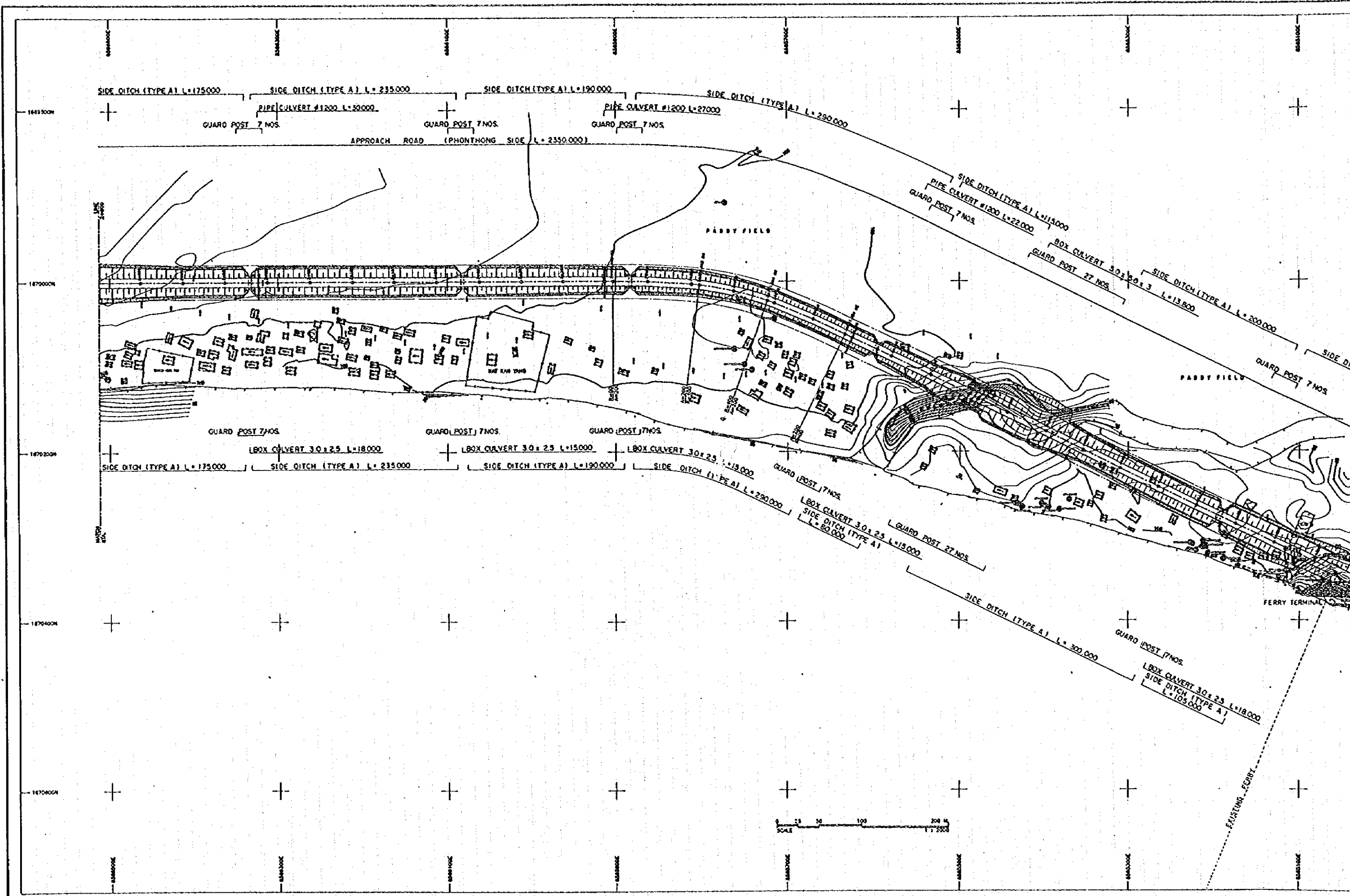
MINISTRY OF COMMUNICATION TRANSPORT POST AND CONSTRUCTION

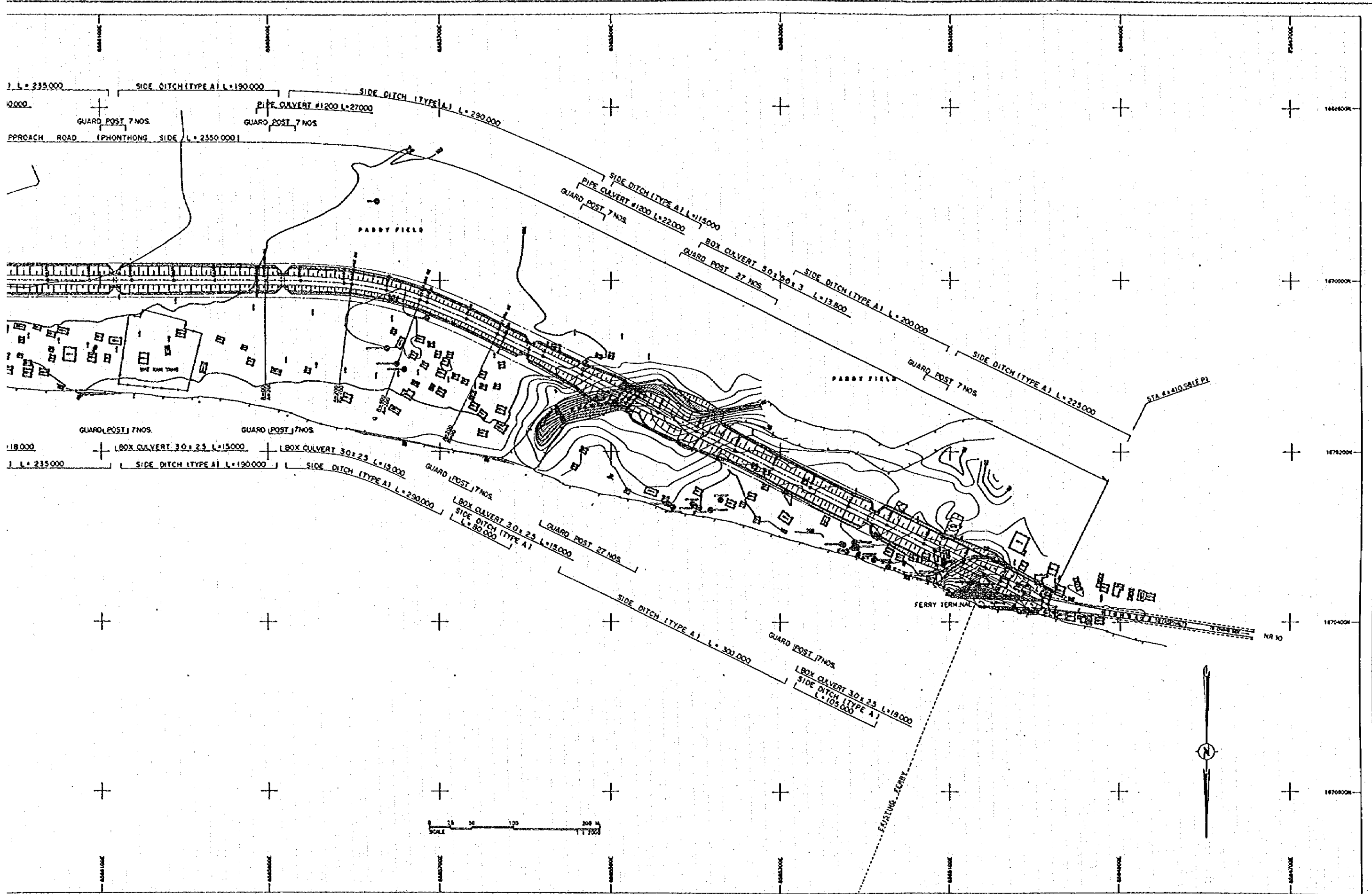
THE STUDY ON THE PROJECT FOR CONSTRUCTION OF PAKSE BRIDGE IN LAO PEOPLE'S DEMOCRATIC REPUBLIC

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

Plan of the Proposed Route (2)

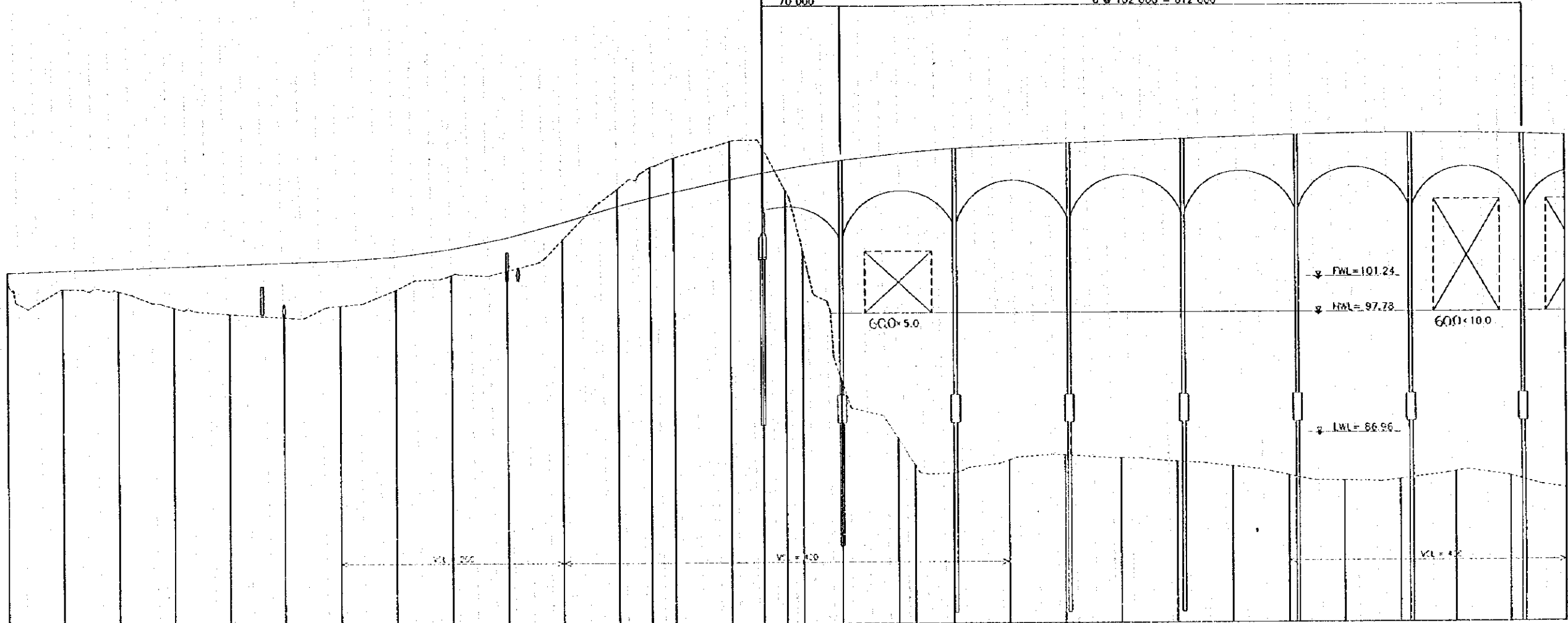
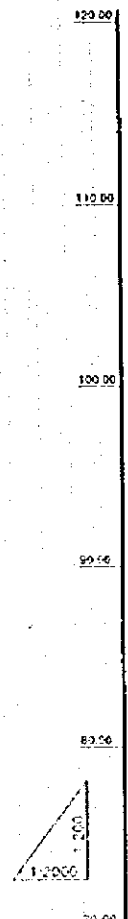
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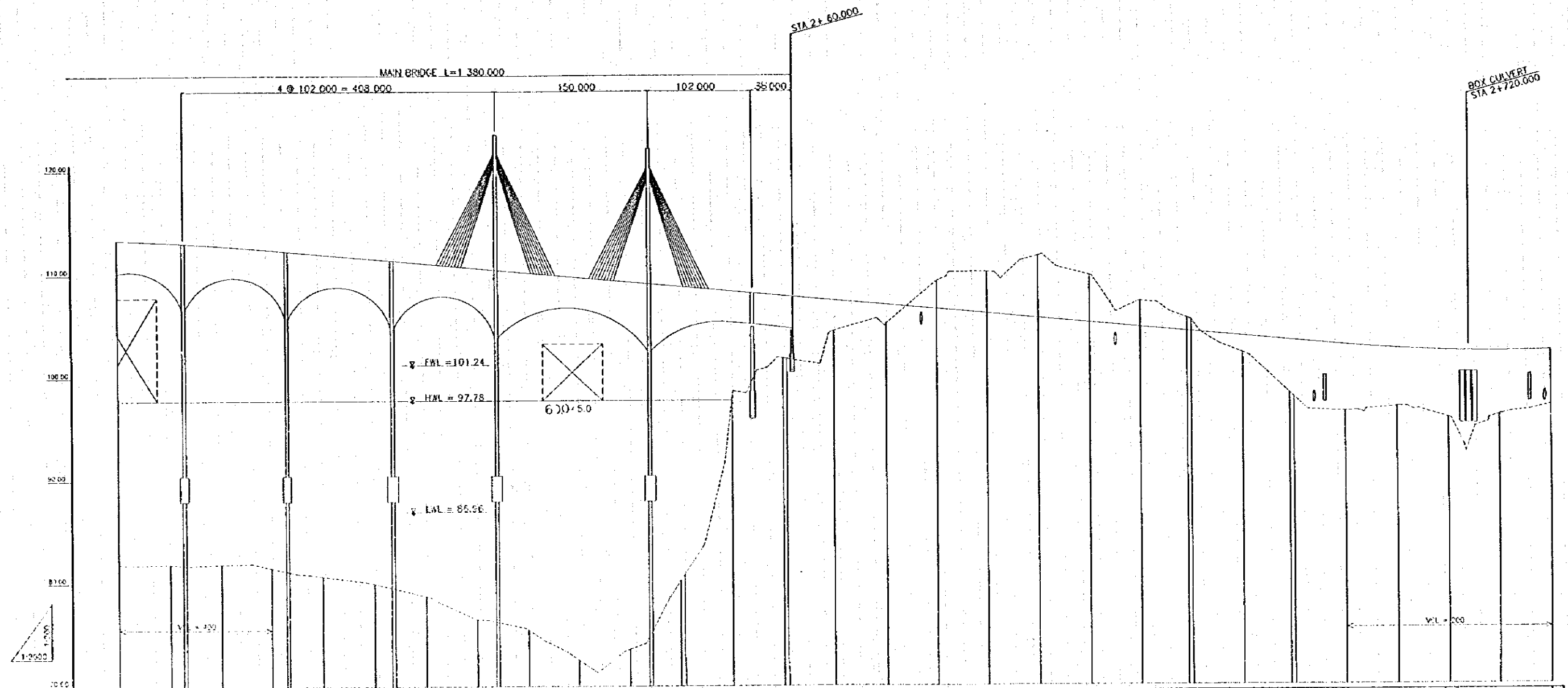


STA 0+680.000

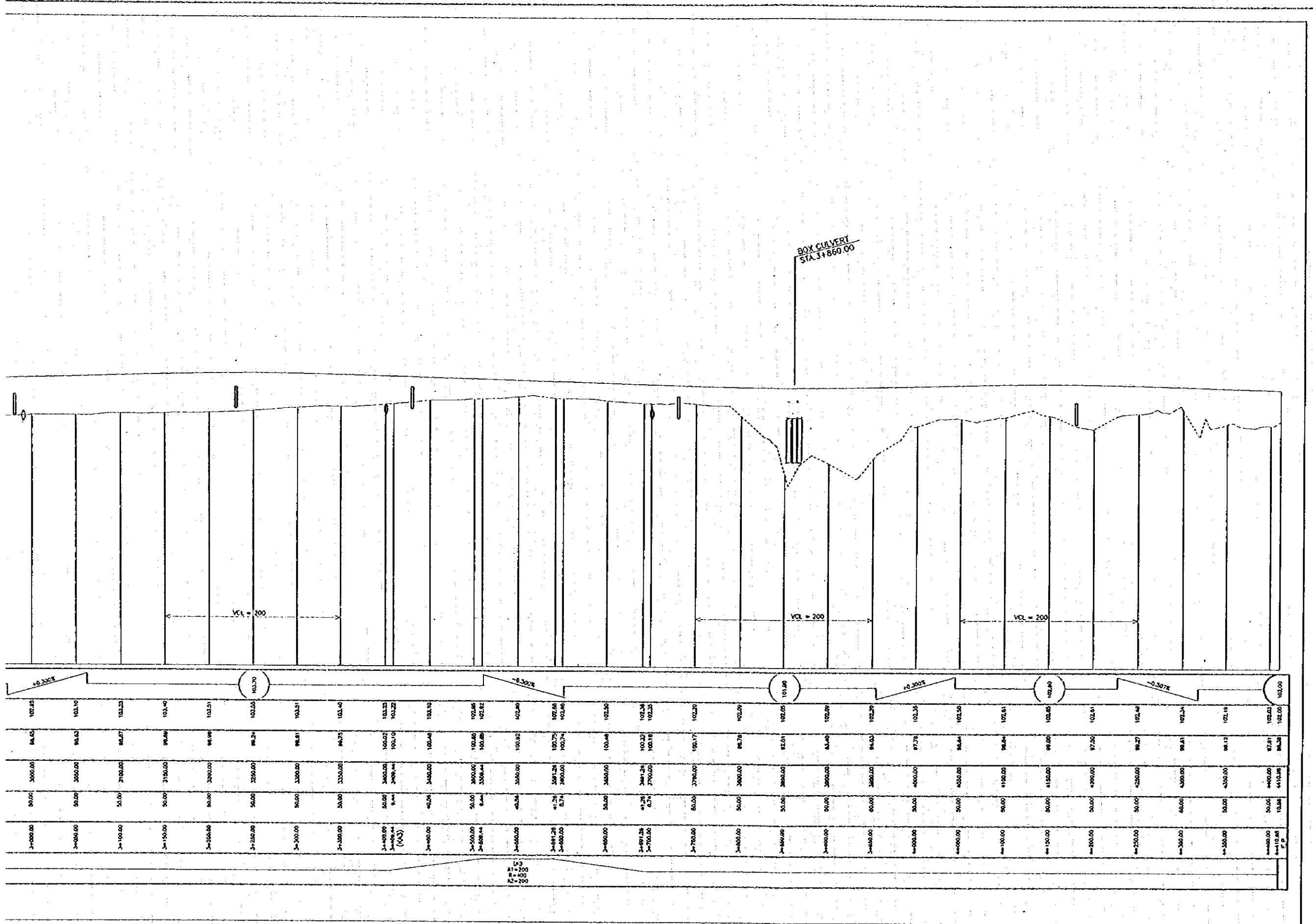
MAIN BRIDGE L=1,380.000
6 @ 102.000 = 612.000



GRADIENT	0.00%		-2.38%		0.00%		+3.90%		0.00%		+0.34%		0.00%		+0.34%		0.00%		+0.34%		0.00%											
PROPOSED LEVEL	101.15	101.00	102.00	102.25	102.25	102.50	102.50	103.65	104.42	105.85	107.57	108.72	108.62	108.27	111.25	112.54	113.86	112.11	112.39	113.74	113.34	113.51	113.84	113.70	113.98	113.58	113.40					
GROUND LEVEL	101.21	100.27	100.04	98.56	97.91	97.41	98.52	100.00	101.25	101.86	104.38	108.89	110.82	108.71	103.43	103.20	104.57	105.00	104.72	104.00	103.54	103.13	103.51	103.84	103.70	103.98	103.58	103.40				
ACCUMULATED DISTANCE	0.00	40.00	100.00	150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	550.00	600.00	650.00	700.00	750.00	800.00	850.00	900.00	950.00	1000.00	1050.00	1100.00	1150.00	1200.00	1250.00	1300.00	1350.00	1400.00			
DISTANCE	0.00	40.00	60.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00				
STATION	0+00	0+40	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400			
HORIZONTAL ALIGNMENT																																



GRADIENT	PROPOSED LEVEL	GROUND LEVEL	ACCUMULATED DISTANCE	DISTANCE	STATION	HORIZONTAL ALIGNMENT
1:2500	111.42	81.91	1400.00	20.00	1+420.00	
	112.14	81.87	1450.00	50.00	1+470.00	
	112.81	81.88	1500.00	50.00	1+520.00	
	112.40	81.52	1550.00	50.00	1+570.00	
	111.45	80.70	1600.00	50.00	1+620.00	
	111.00	79.97	1650.00	50.00	1+670.00	
	111.08	78.72	1700.00	50.00	1+720.00	
	110.60	76.49	1750.00	50.00	1+770.00	
	110.75	75.45	1800.00	50.00	1+820.00	
	109.70	72.56	1850.00	50.00	1+870.00	
	109.25	70.57	1900.00	50.00	1+920.00	
	108.25	68.25	1950.00	50.00	1+970.00	
	108.25	68.81	2000.00	50.00	2+020.00	
	108.25	68.03	2050.00	50.00	2+070.00	
	107.80	67.88	2100.00	50.00	2+120.00	
	107.82	67.82	2150.00	50.00	2+170.00	
	107.45	66.50	2200.00	50.00	2+220.00	
	107.00	65.15	2250.00	50.00	2+270.00	
	106.55	63.82	2300.00	50.00	2+320.00	
	106.10	62.50	2350.00	50.00	2+370.00	
	105.65	61.18	2400.00	50.00	2+420.00	
	105.20	59.88	2450.00	50.00	2+470.00	
	104.75	58.60	2500.00	50.00	2+520.00	
	104.30	57.35	2550.00	50.00	2+570.00	
	103.85	56.12	2600.00	50.00	2+620.00	
	103.40	54.90	2650.00	50.00	2+670.00	
	102.95	53.70	2700.00	50.00	2+720.00	
	102.50	52.52	2750.00	50.00	2+770.00	
	102.05	51.35	2800.00	50.00	2+820.00	
	101.60	50.20	2850.00	50.00	2+870.00	
	101.15	49.05	2900.00	50.00	2+920.00	
	100.70	47.90	2950.00	50.00	2+970.00	
	100.25	46.75	3000.00	50.00	3+020.00	
	100.80	45.60	3050.00	50.00	3+070.00	
	100.35	44.45	3100.00	50.00	3+120.00	
	100.90	43.30	3150.00	50.00	3+170.00	
	100.45	42.15	3200.00	50.00	3+220.00	
	100.00	41.00	3250.00	50.00	3+270.00	
	99.55	39.85	3300.00	50.00	3+320.00	
	99.10	38.70	3350.00	50.00	3+370.00	
	98.65	37.55	3400.00	50.00	3+420.00	
	98.20	36.40	3450.00	50.00	3+470.00	
	97.75	35.25	3500.00	50.00	3+520.00	
	97.30	34.10	3550.00	50.00	3+570.00	
	96.85	32.95	3600.00	50.00	3+620.00	
	96.40	31.80	3650.00	50.00	3+670.00	
	95.95	30.65	3700.00	50.00	3+720.00	
	95.50	29.50	3750.00	50.00	3+770.00	
	95.05	28.35	3800.00	50.00	3+820.00	
	94.60	27.20	3850.00	50.00	3+870.00	
	94.15	26.05	3900.00	50.00	3+920.00	
	93.70	24.90	3950.00	50.00	3+970.00	
	93.25	23.75	4000.00	50.00	4+020.00	

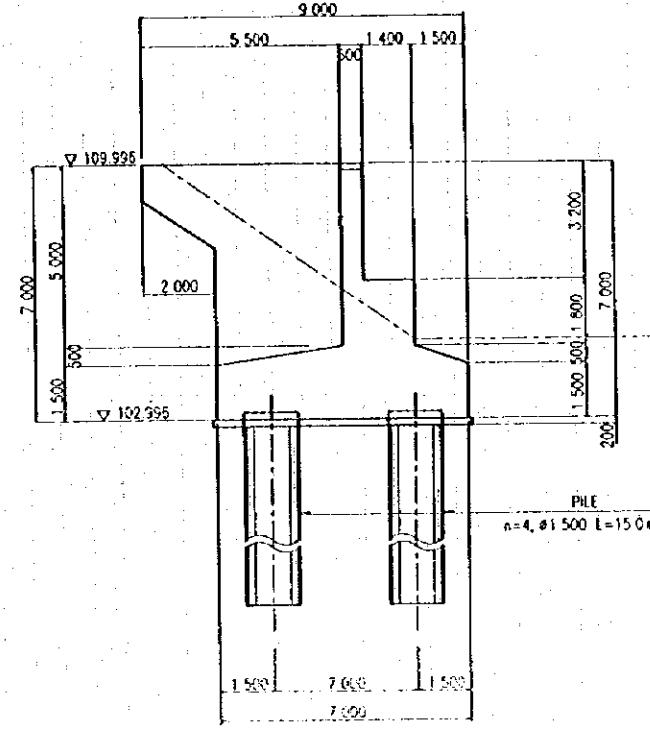
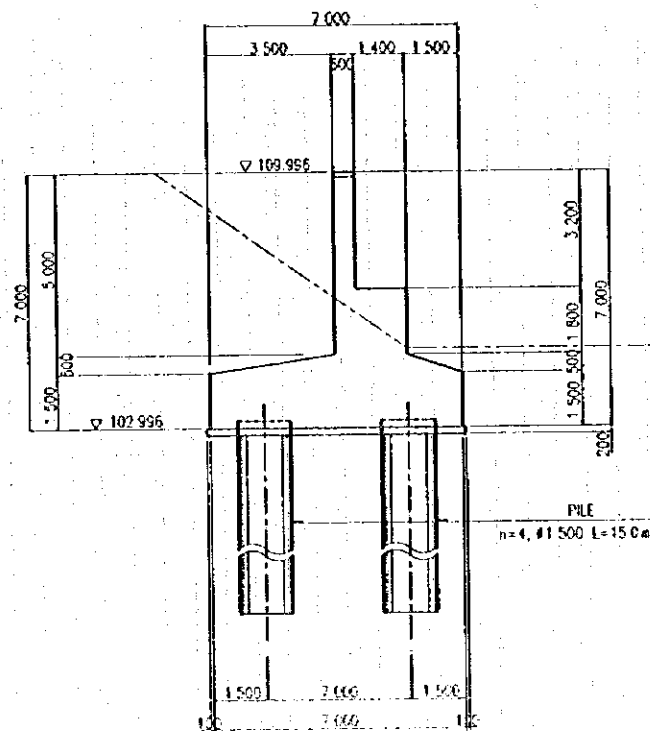
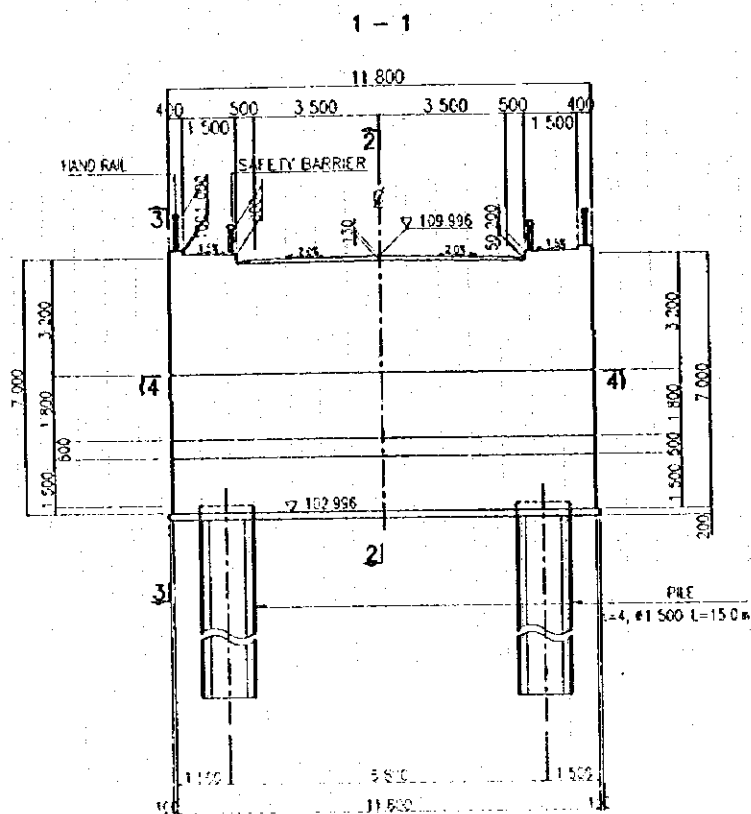


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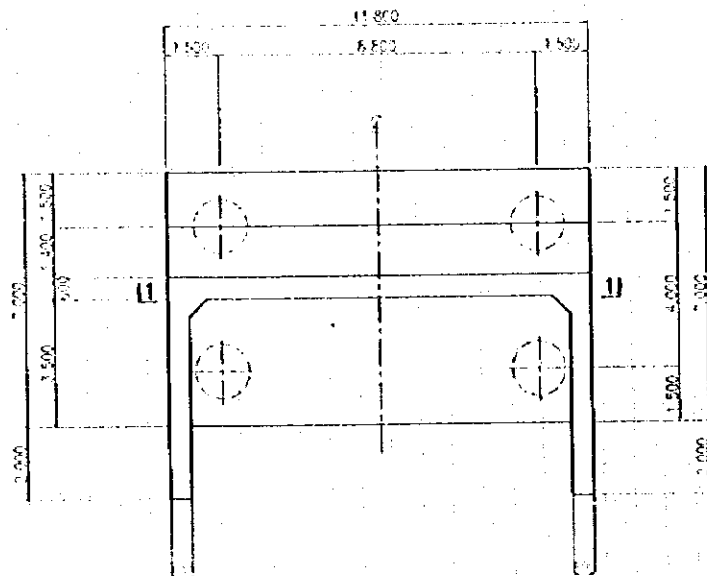
A 1

2-2

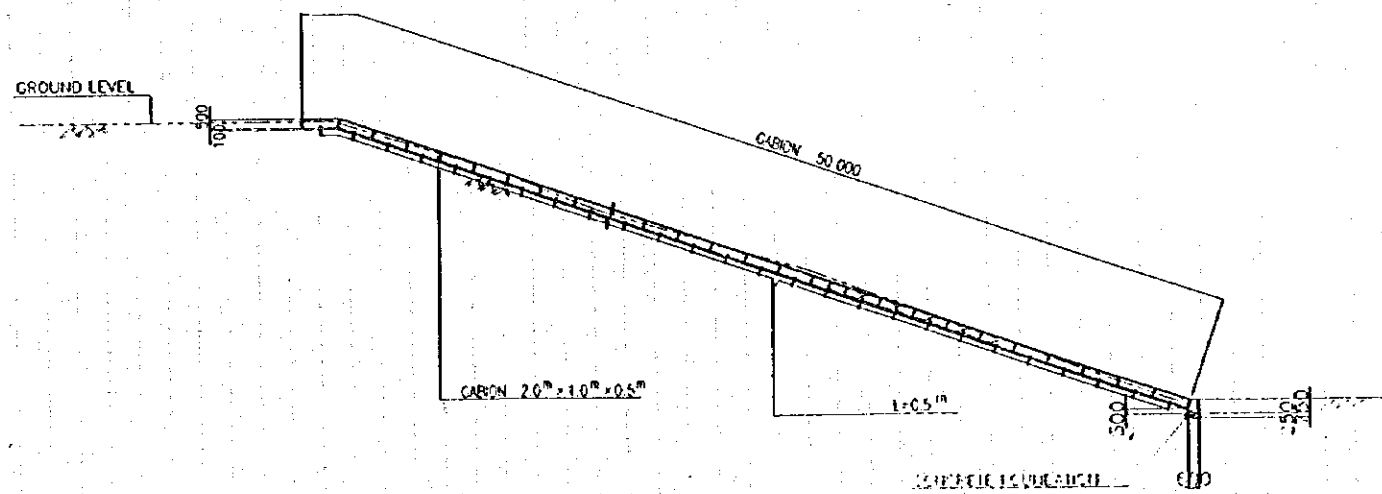
3-3



4-4

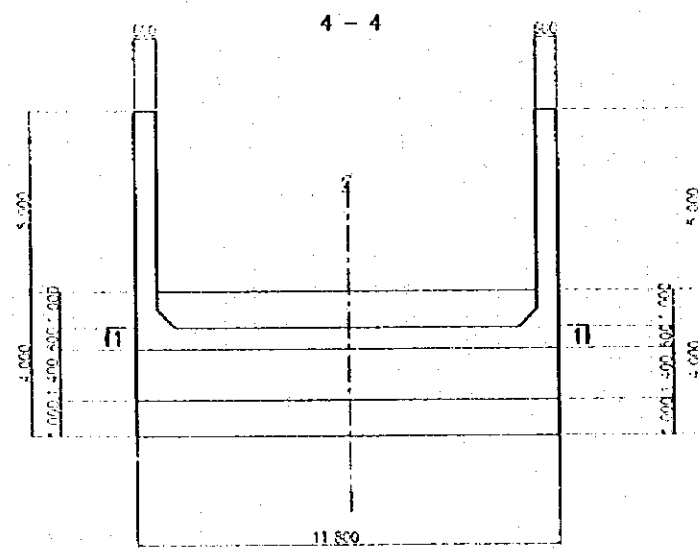
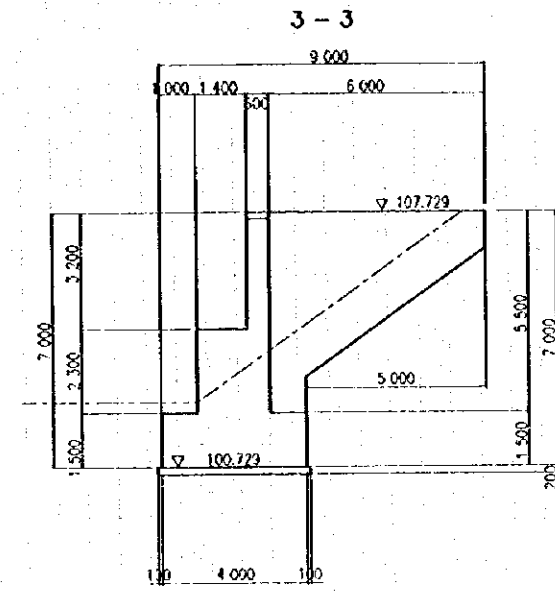
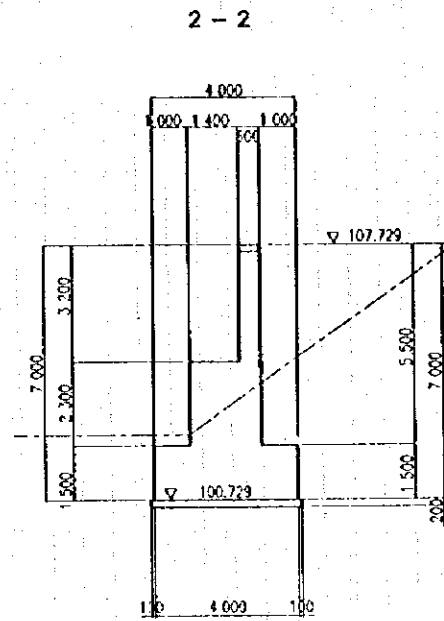
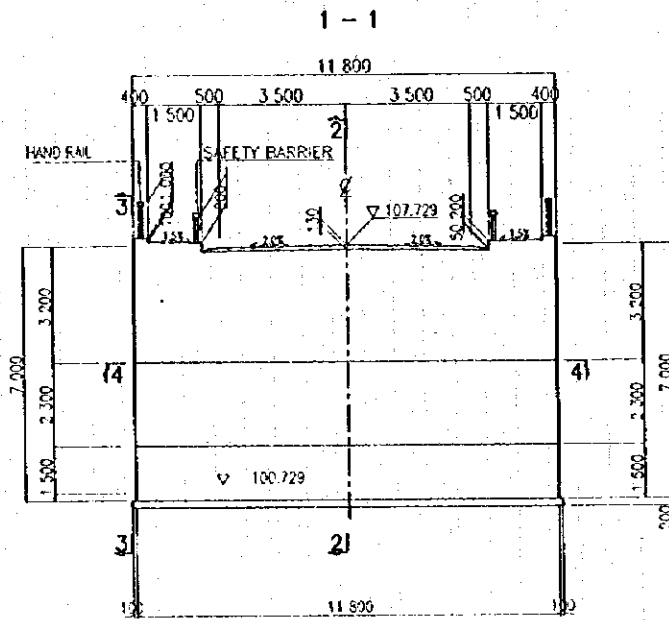


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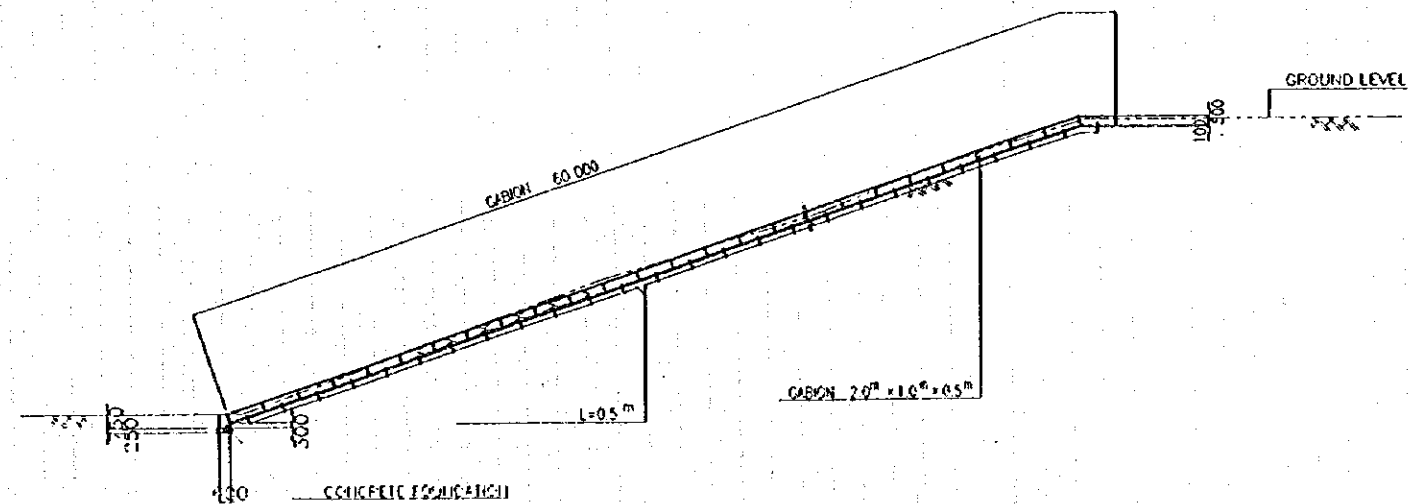


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A 2



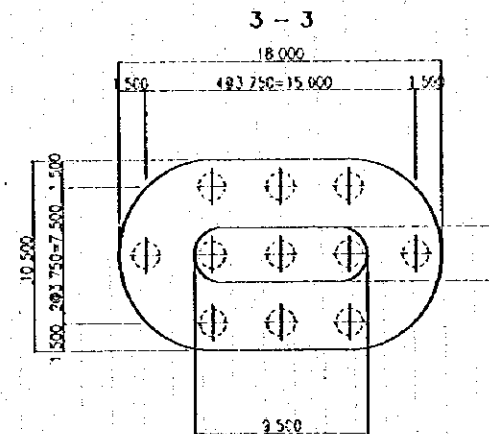
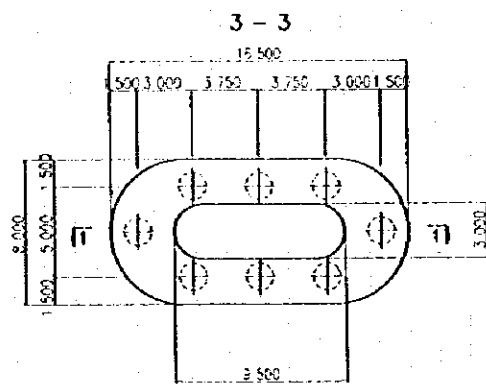
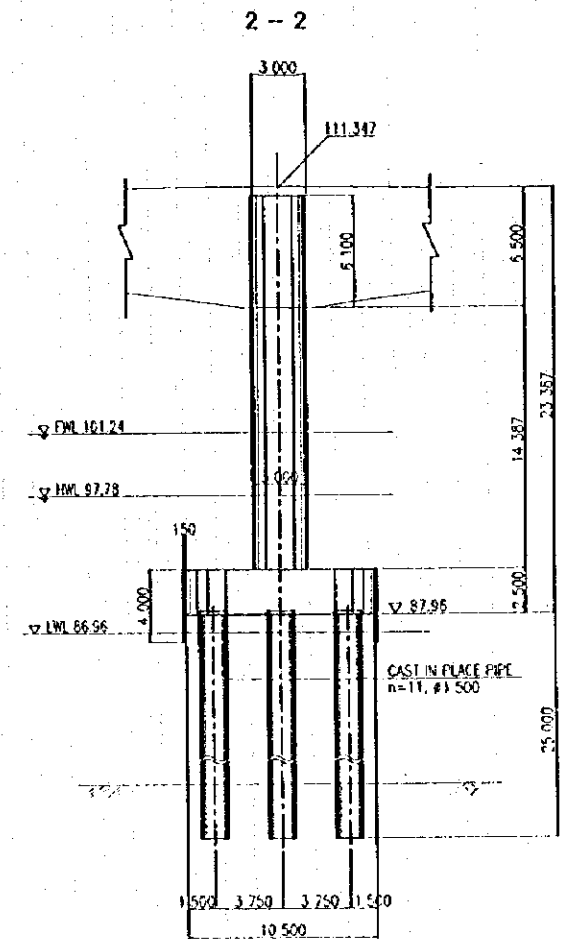
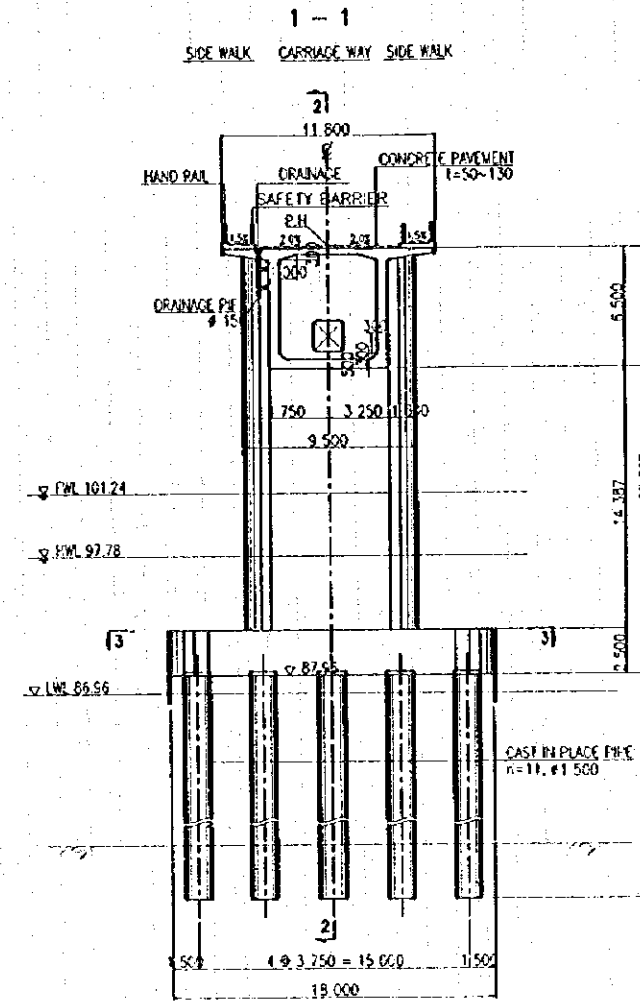
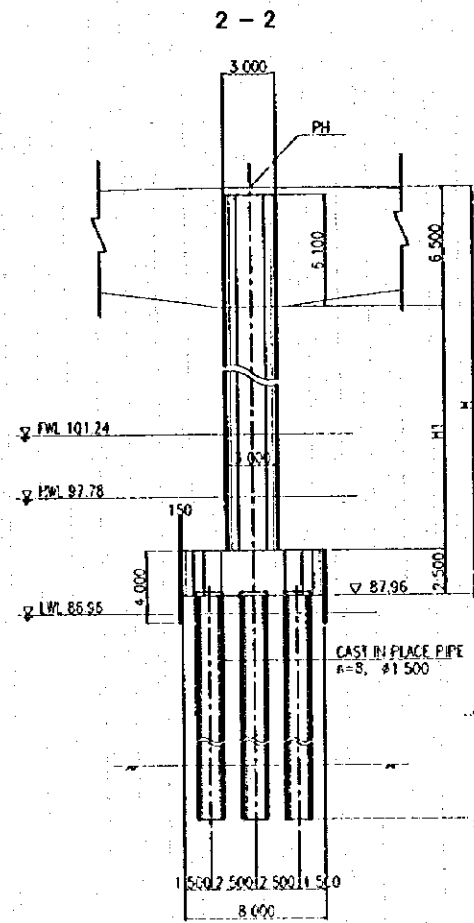
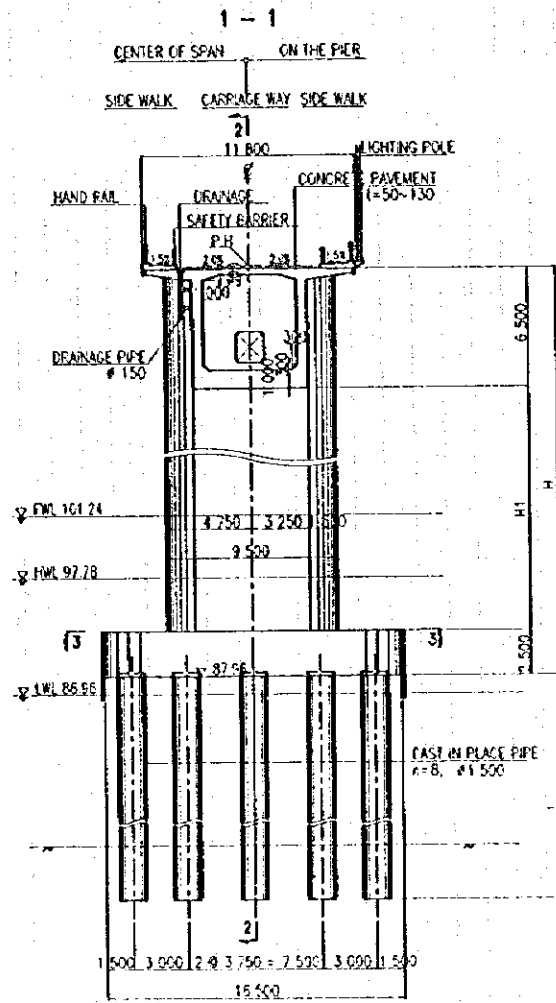
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P1~P9

S=1:200

P10

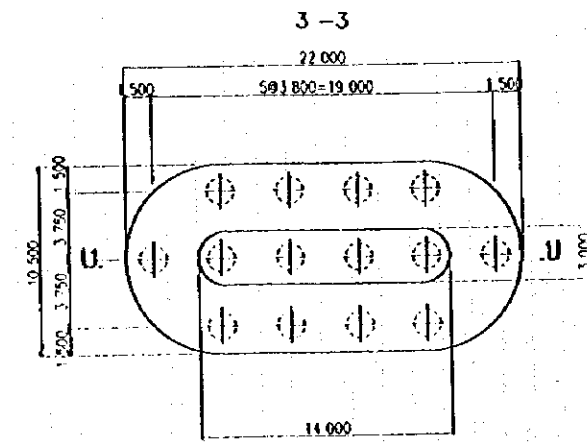
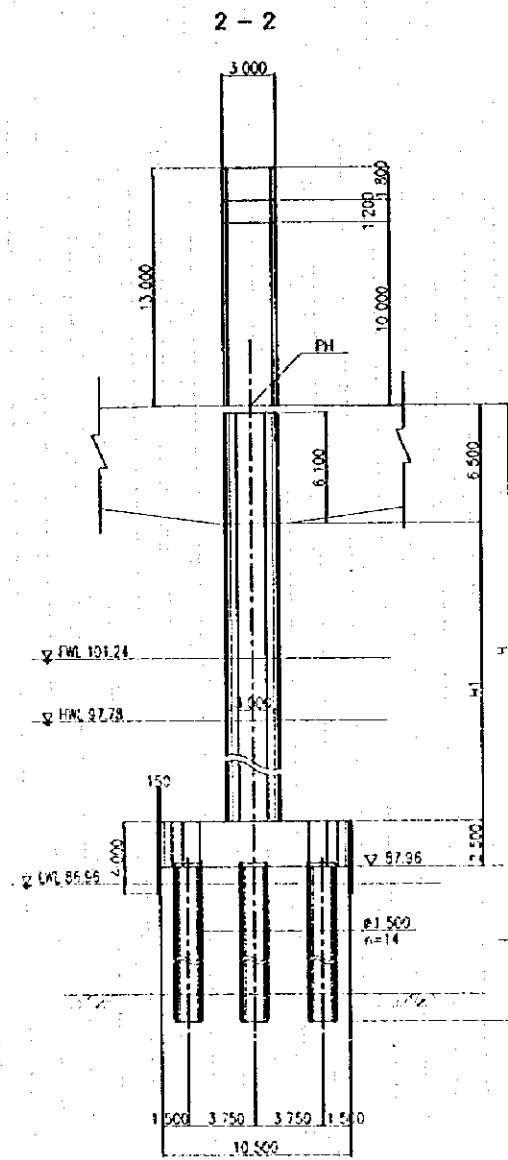
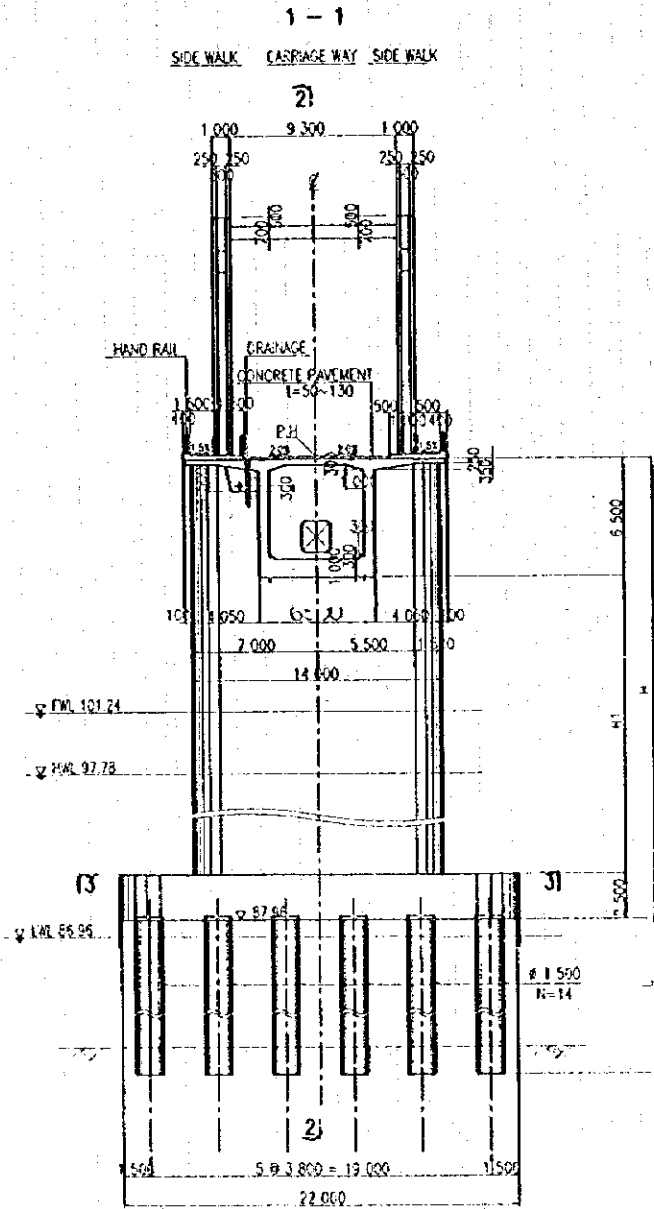


	P1	P2	P3	P4	P5	P6	P7	P8	P9
PH	111.018	112.300	112.791	113.147	113.500	113.773	113.491	113.151	112.265
H	23.058	24.340	24.831	25.187	25.540	25.813	25.531	25.191	24.305
HI	14.058	15.340	15.831	16.187	16.540	16.813	16.531	16.191	15.305
L	11.000	12.300	12.800	13.000	13.500	14.000	14.000	14.000	14.000

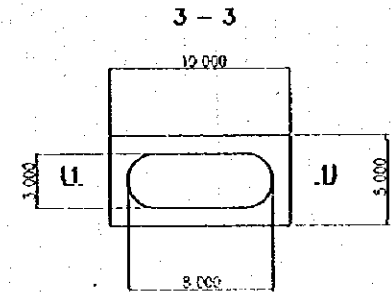
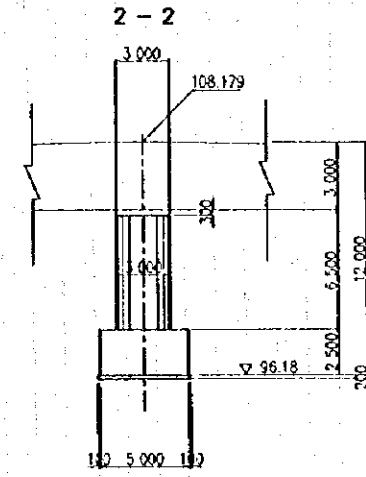
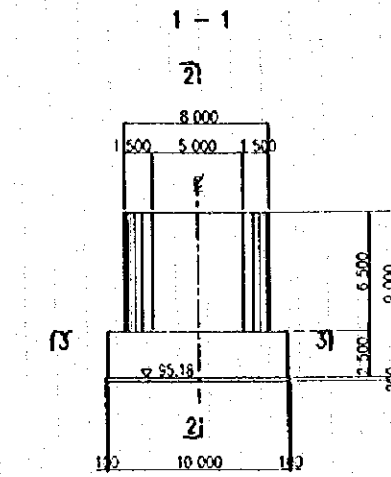
P11, P12

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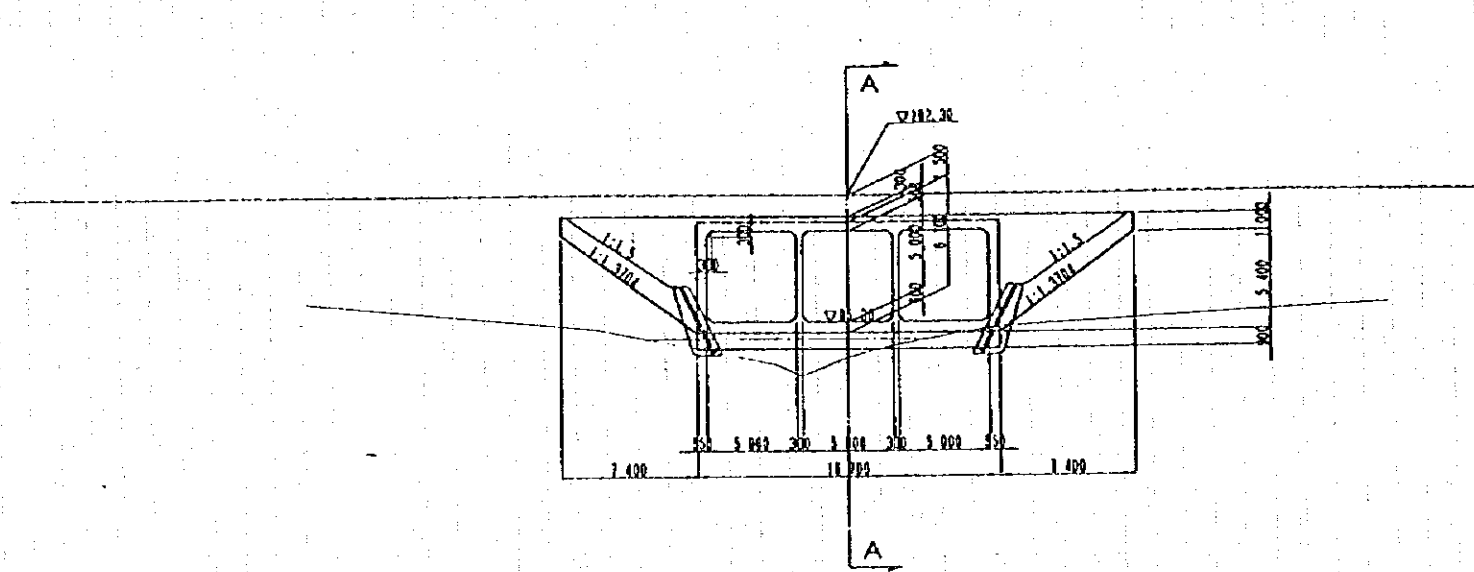
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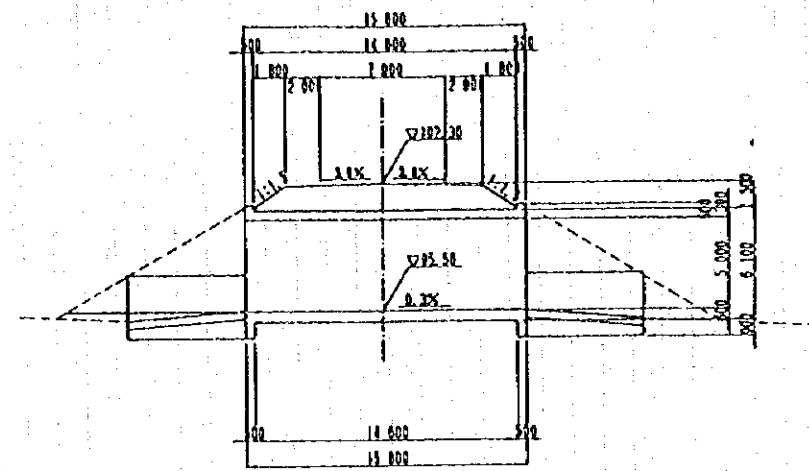
	P11	P12
PH	110.429	109.579
H	22.469	21.619
H1	13.469	12.619
l	31.000	27.000



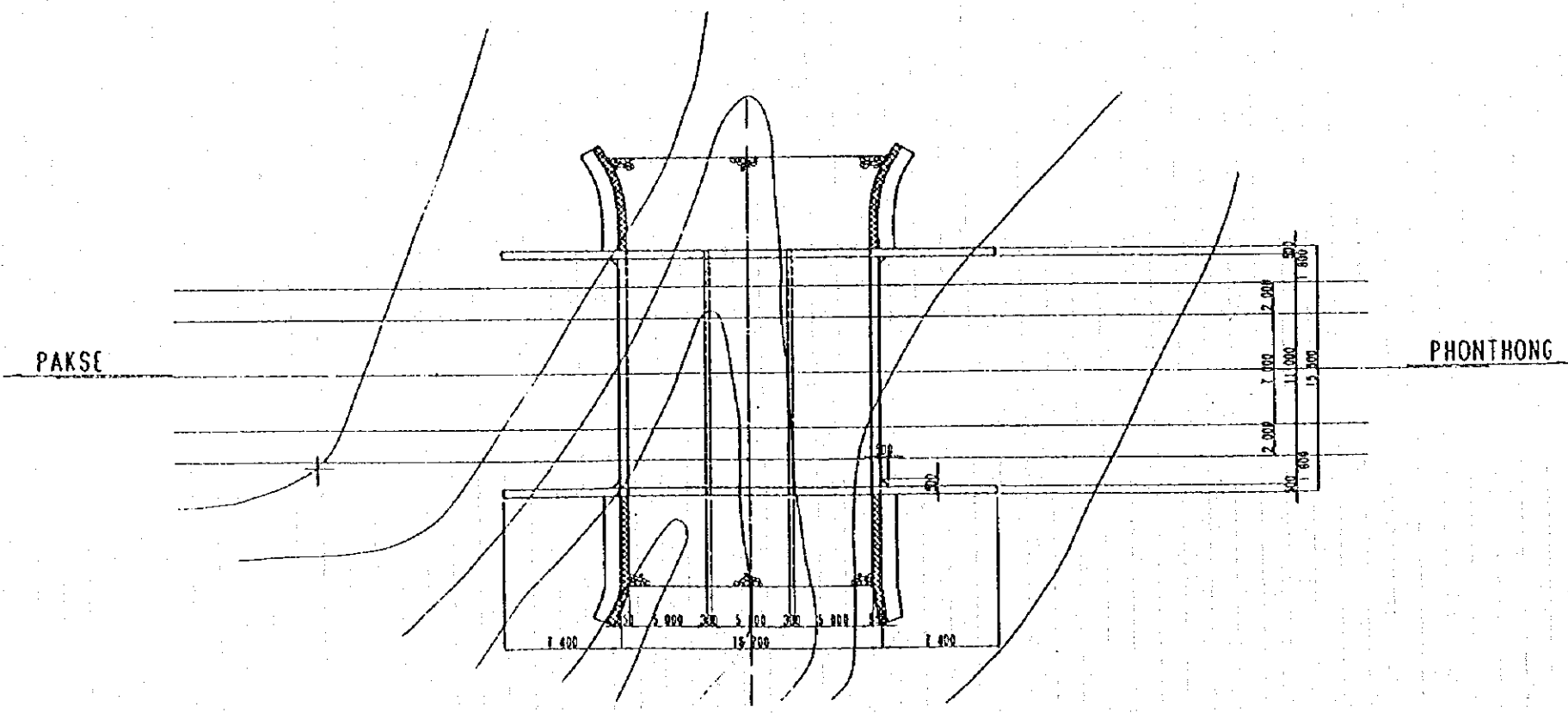
STA. 2+720



Cross Section SCALE 1:200

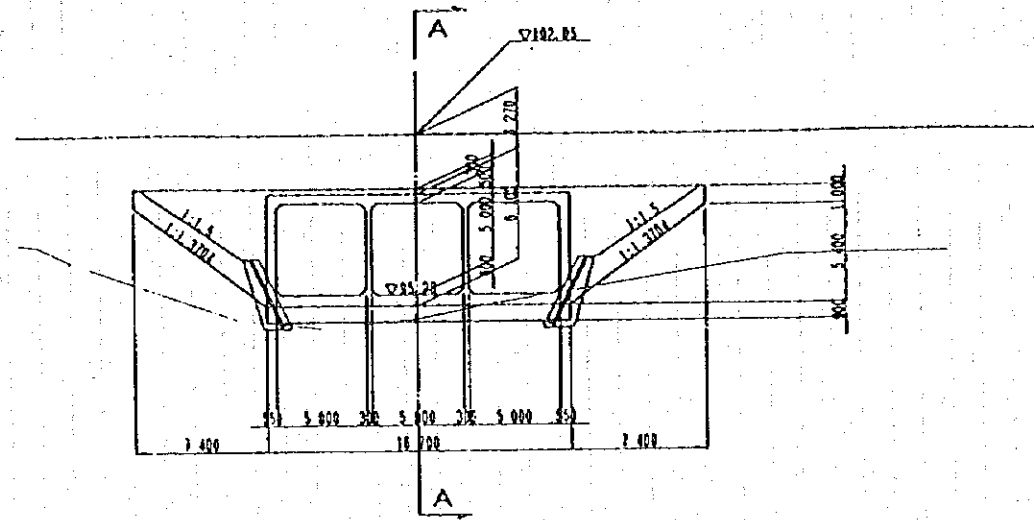


Side View SCALE 1:200

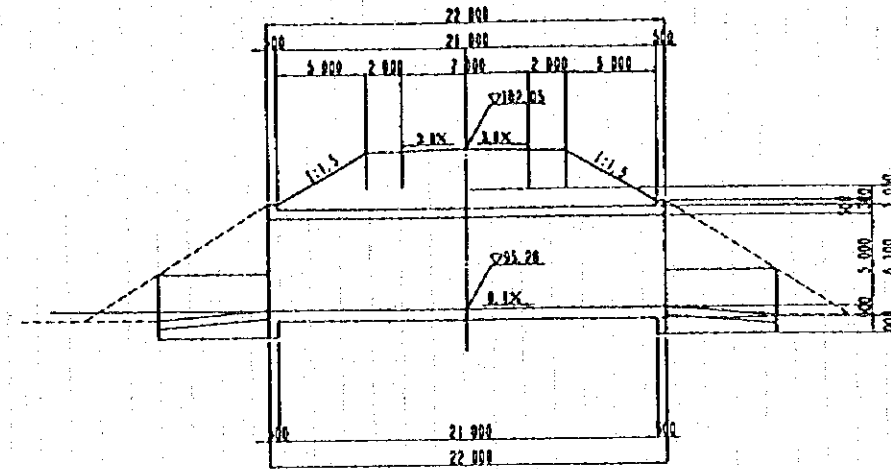


Plan SCALE 1:200

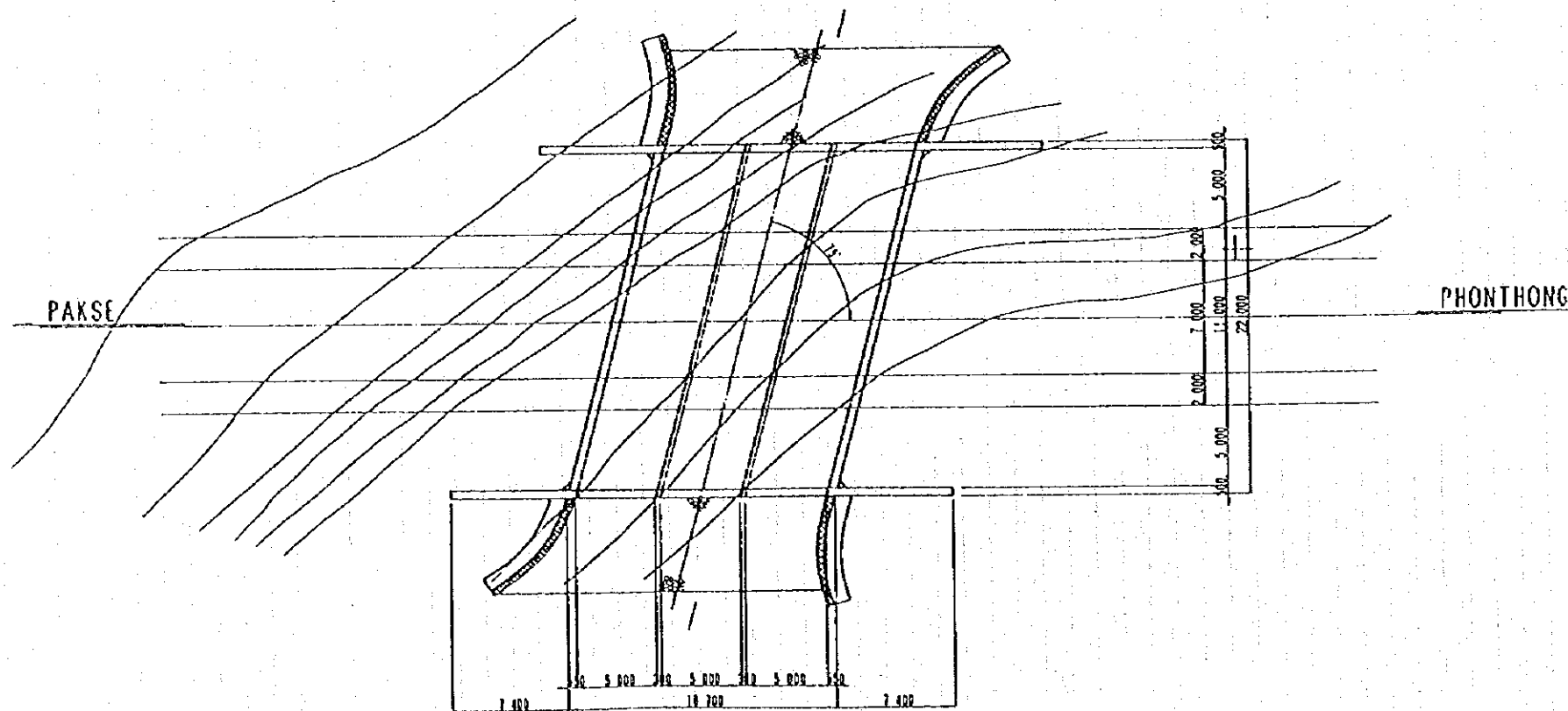
STA. 3+860



Cross Section SCALE 1:200



Side View SCALE 1:200



Plan SCALE 1:200

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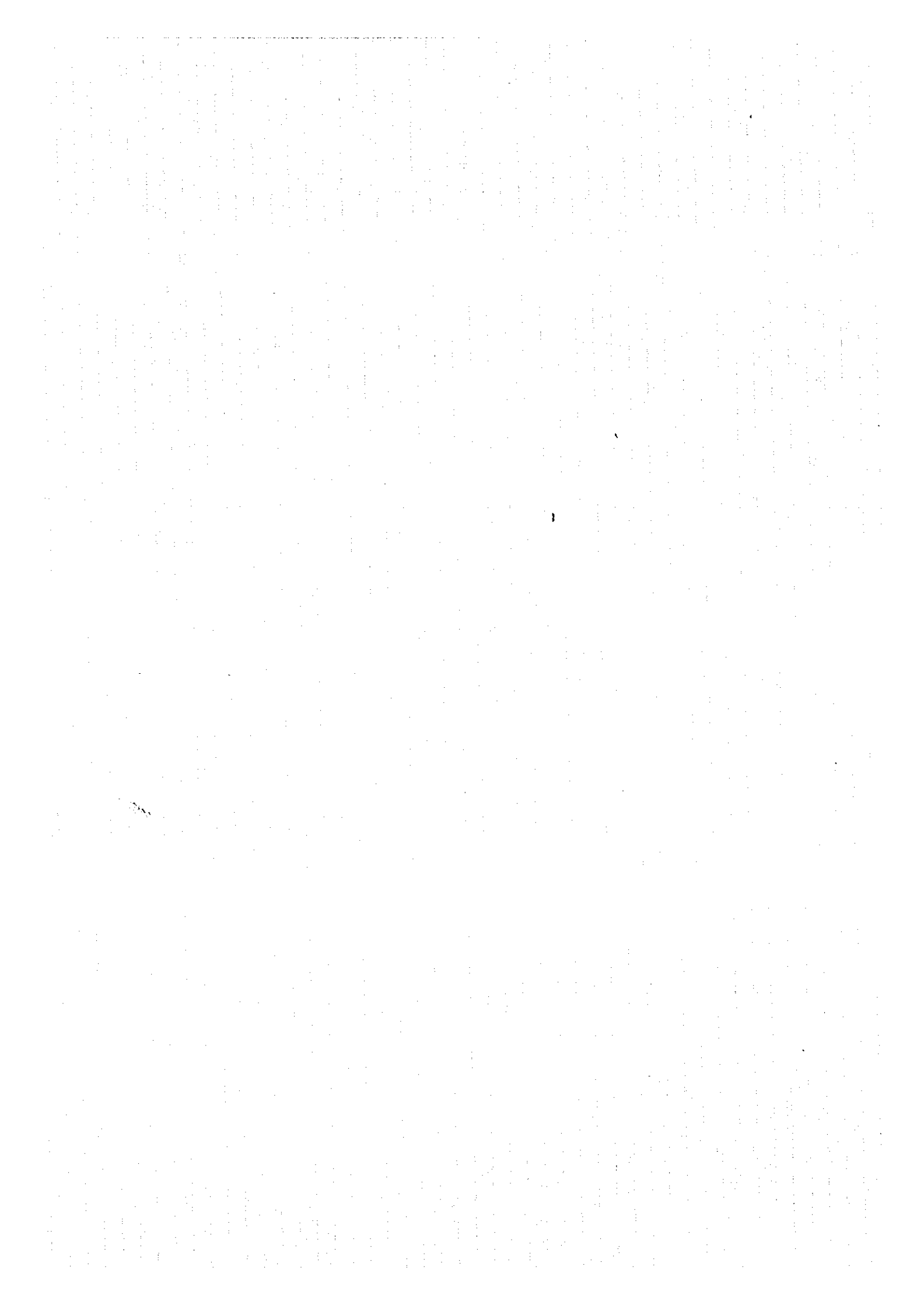
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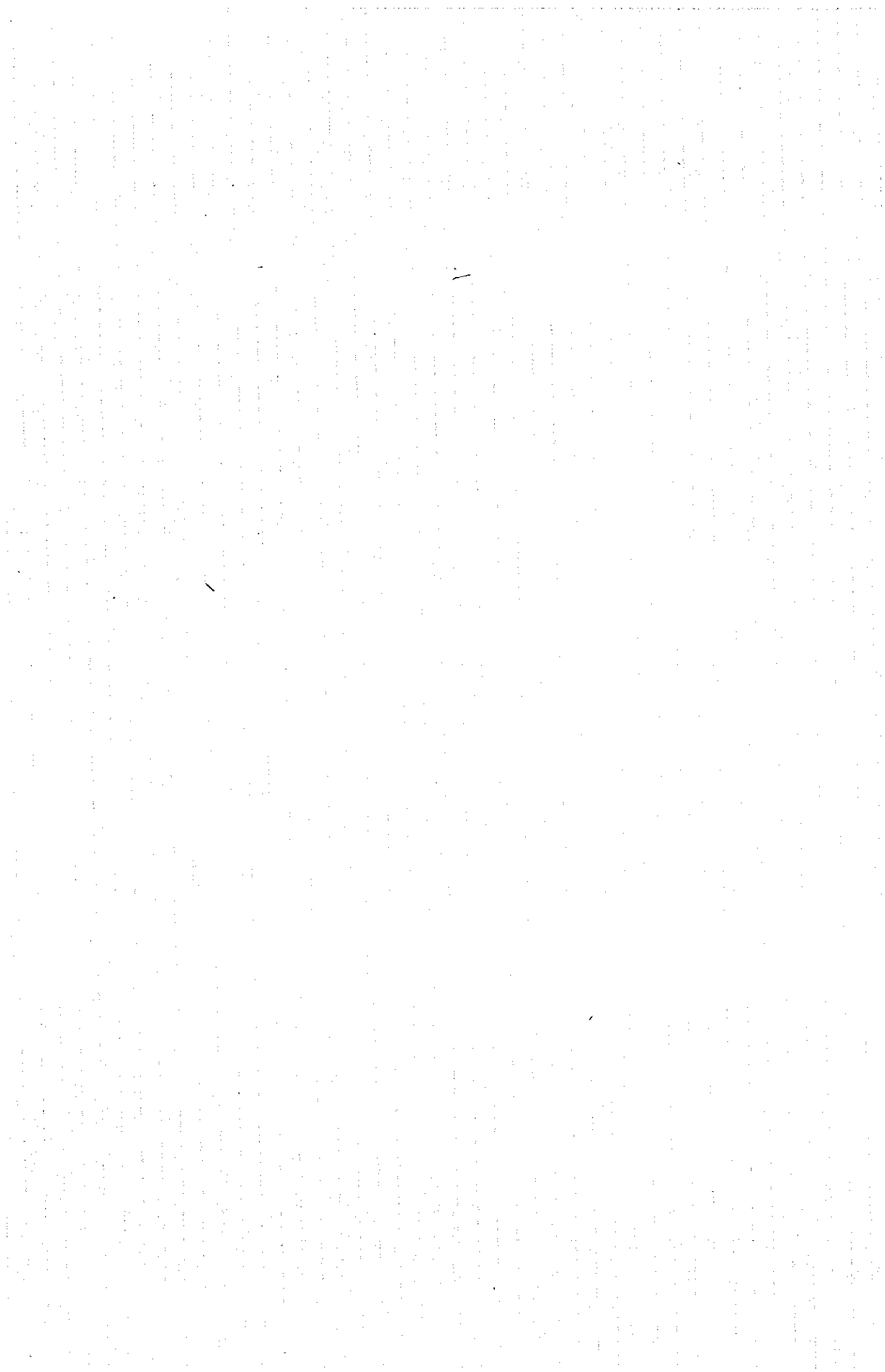
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