



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

**FEASIBILITY STUDY  
ON  
REHABILITATION AND MAINTENANCE  
OF  
BRIDGES ALONG ARTERIAL ROADS**

**FINAL REPORT  
VOLUME IV  
(DRAWINGS)**

JUNE, 1989

JAPAN INTERNATIONAL COOPERATION AGENCY

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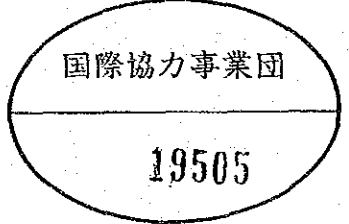
INTERNATIONAL COOPERATION AGENCY

国際協力事業団

1950





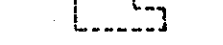
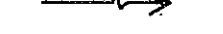






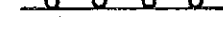

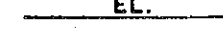
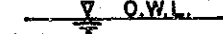
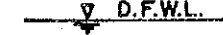



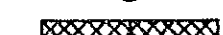


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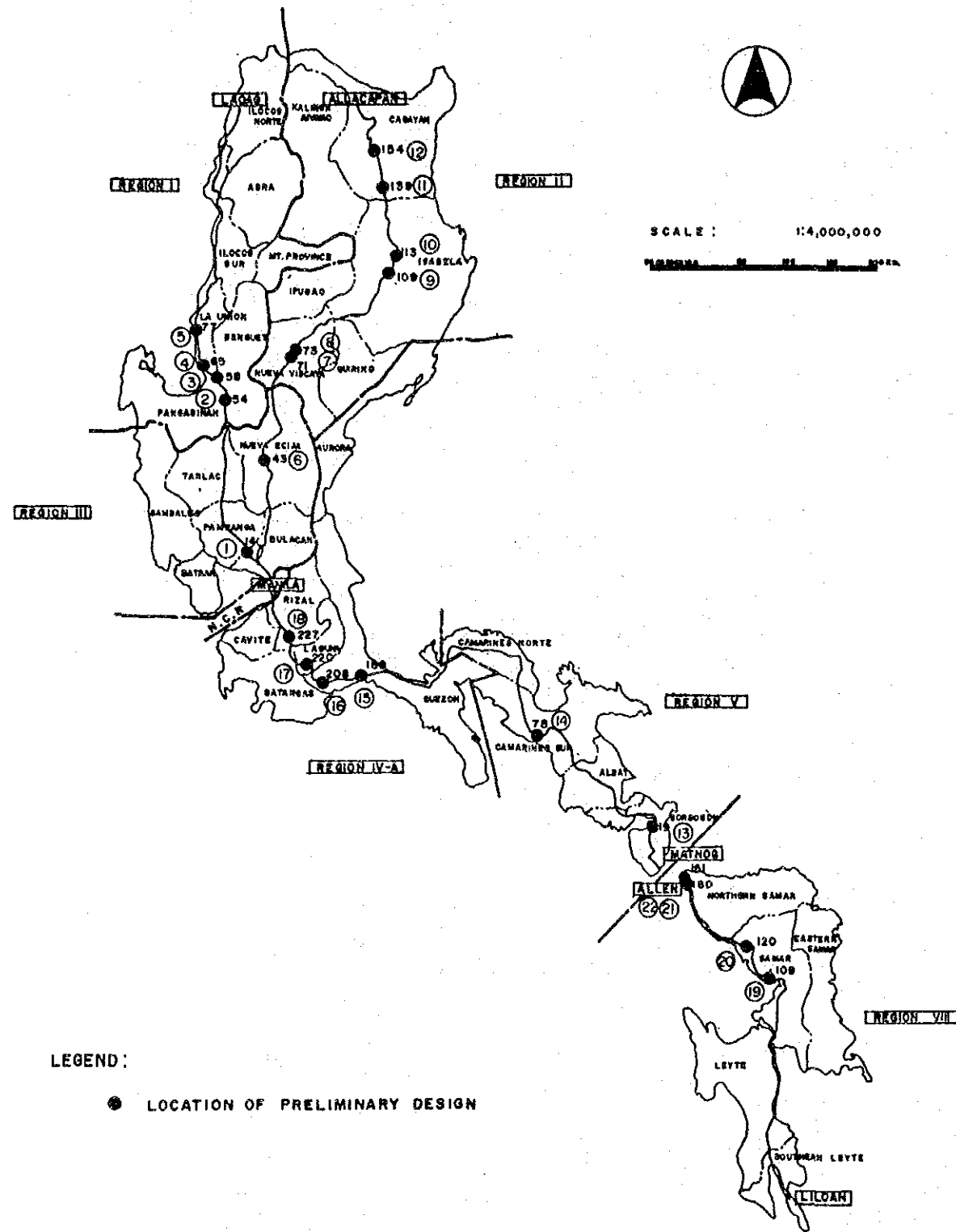


INTERNATIONAL COOPERATION AGENCY

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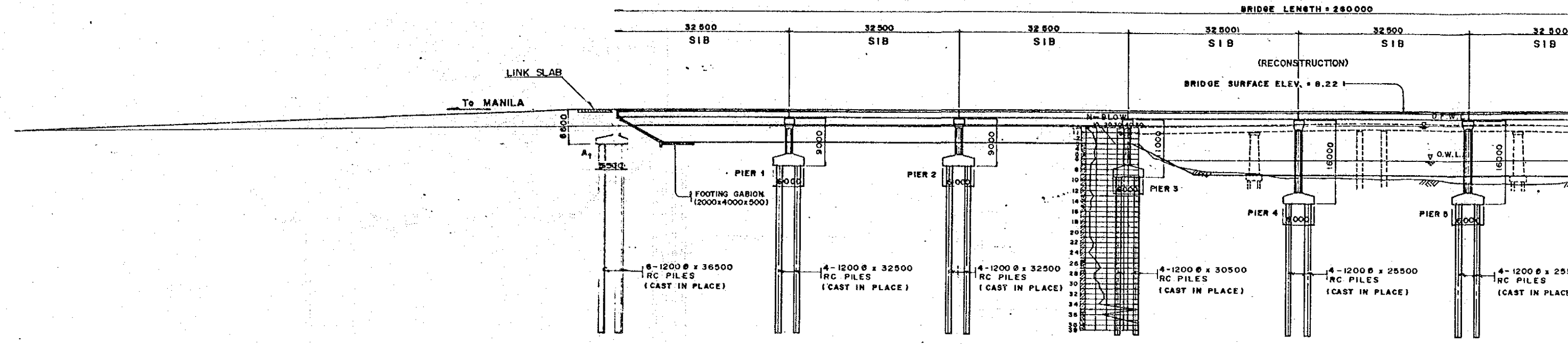
# LOCATION MAP FOR PRELIMINARY DESIGN



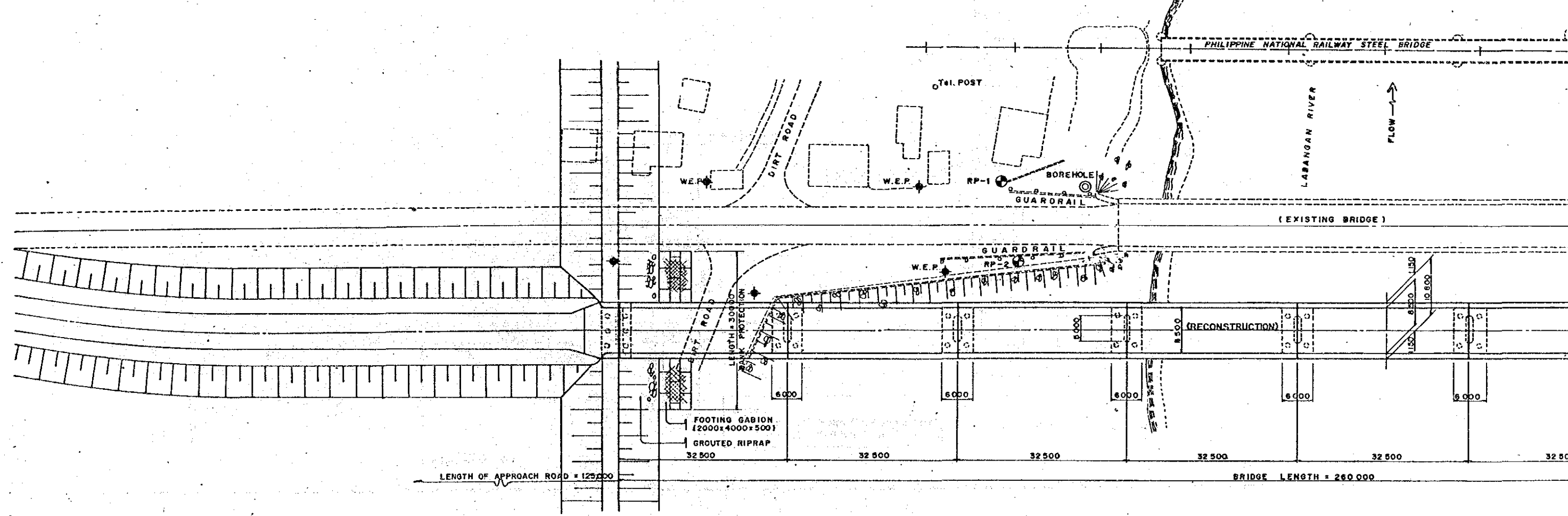
**LEGEND:**  
 ● LOCATION OF PRELIMINARY DESIGN

SECTION	REGION	NUMBER	BR. NO.	BR. NAME	EXIST. BR. TYPE	PROPOSED BR. TYPE	REHABILITATION METHODS	LOCATION	REMARKS
N.A. NORTH ROAD	III	I	14	SARAPAN I	S.T.S.	S.T.S.	RECONSTRUCTION	CALINPAT, BATAAN	
			84	TARAMUNAN	R.O.D.S.	PO-I	RECONSTRUCTION	URDANETA, PANGASINAN	
			88	SUED	PONY TRUSS R.C.D.S., S.T.S.	PG-I, PC-T	RECONSTRUCTION	IBIGON, PANGASINAN	
			88	LOMBOY	R.C.D.S.	R.C.D.S.	REPLACEMENT OF SUPERSTRUCTURE	WTO. TONAS LA UNION	
			77	BAUANG I	PONY	PRECAST PONY P.C.I.	RECONSTRUCTION	BAUANG, LA UNION	
PAN-PHILIPPINE HIGHWAY	III	II	68	SICBICAN	TRUSS	TRUSS	REPAIR	TALAYERA BULACAN	
			71	INDIANA	RIB, PONY	S.T.S.	RECONSTRUCTION	ARITAC NUEVA VIECAYA	
			78	BATU	TRUSS	TRUSS	REPAIR	BATAAN NUEVA VIECAYA	
			109	HABULIAN	S.I.E. TRUSS	S.I.E. TRUSS	REPAIR	HABULIAN, ISABELA	
			119	MALALAN	S.I.E. TRUSS	S.I.E. TRUSS	REPAIR	SABAN, ISABELA	
			139	PHILMUNAN	TRUSS, S.I.E.	TRUSS, S.I.E.	REPAIR	TUGUEGARAO, CAGAYAN	
			184	PAREO	PONY TRUSS RIBID, FRAME	PONY TRUSS RIBID, FRAME	RECONSTRUCTION	ALCALA, CAGAYAN	
			18	S.U.S.E	RC SLAB	PRECAST PONY	REPLACEMENT OF SUPERSTRUCTURE	CASISURAN, SORSOGON	
			78	SAN SAGUNE	RC SLAB	RC SLAB	REPLACEMENT OF SUPERSTRUCTURE	PAMPLONA, CAMARINES SUR	
			188	SINAHAN	R.O.D.S.	R.C.D.S.	REPLACEMENT OF SUPERSTRUCTURE	PAGBILAO, QUEZON	
LIGON-ALLEN	VIII	I	808	STO. CRISTO	R.C.D.S.	R.C.D.S.	REPLACEMENT OF SUPERSTRUCTURE	SANAYAN, QUEZON	
			880	MARAPON	PONY	PC-I	REPLACEMENT OF SUPERSTRUCTURE	STO. TOMAS, BATANGAS	
			827	STO. CRISTOBAL	R.C.D.S. TRUSS	R.C.D.S. TRUSS	REPAIR	CALAMBA, LAGUNA	
			109	JIBONG	RC SLAB	PC-I	RECONSTRUCTION	JIBONG, SAMAR	
			120	INDORONAN	S.I.S.	S.I.S.	REPAIR	SANOHAN, SAMAR	
LIGON-ALLEN	VIII	I	109	JUBAAN II	PONY	PO-I	REPLACEMENT OF SUPERSTRUCTURE	ALLEN, NORTHERN SAMAR	
			101	JUBAAN I	TRUSS	PO-T	RECONSTRUCTION	ALLEN, NORTHERN SAMAR	

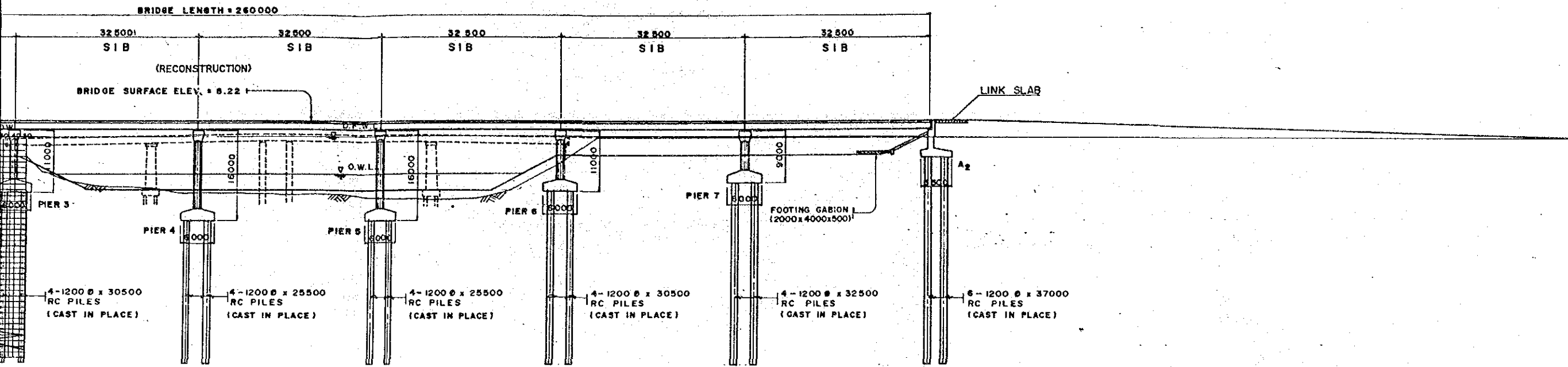
**PROFILE**  
SCALE: 1:500



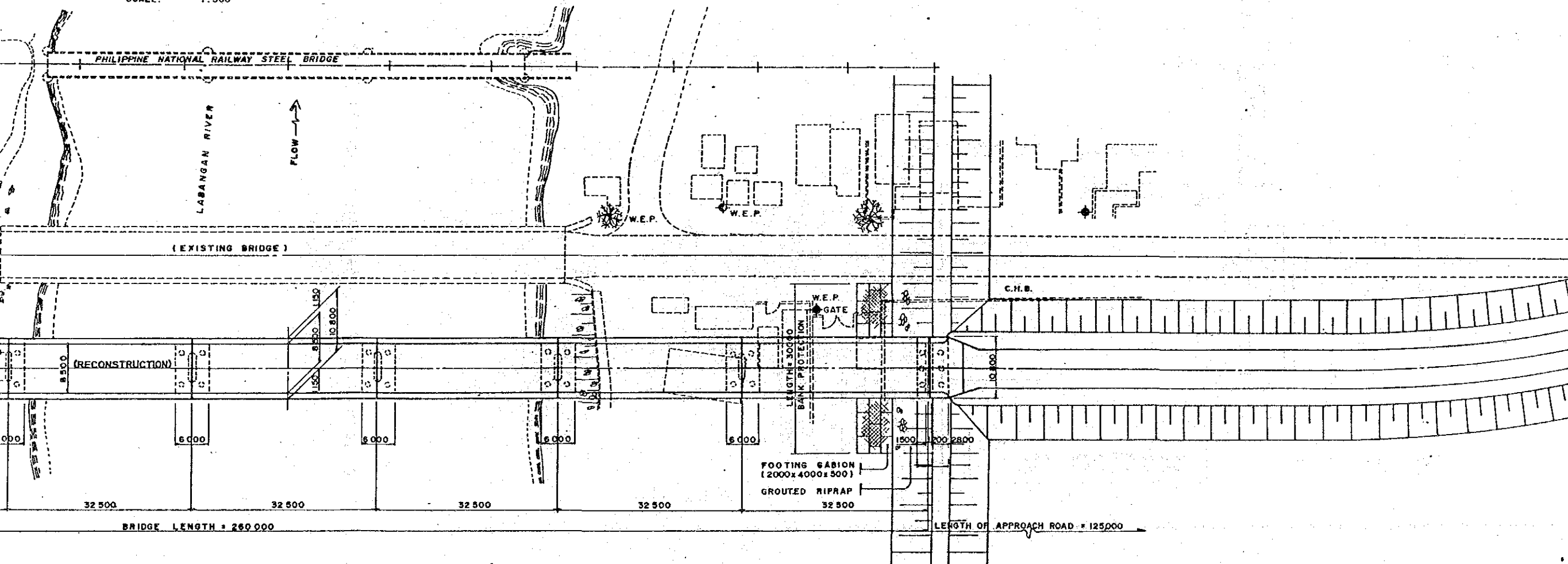
**PLAN**  
SCALE: 1:500



**PROFILE**  
SCALE: 1:500



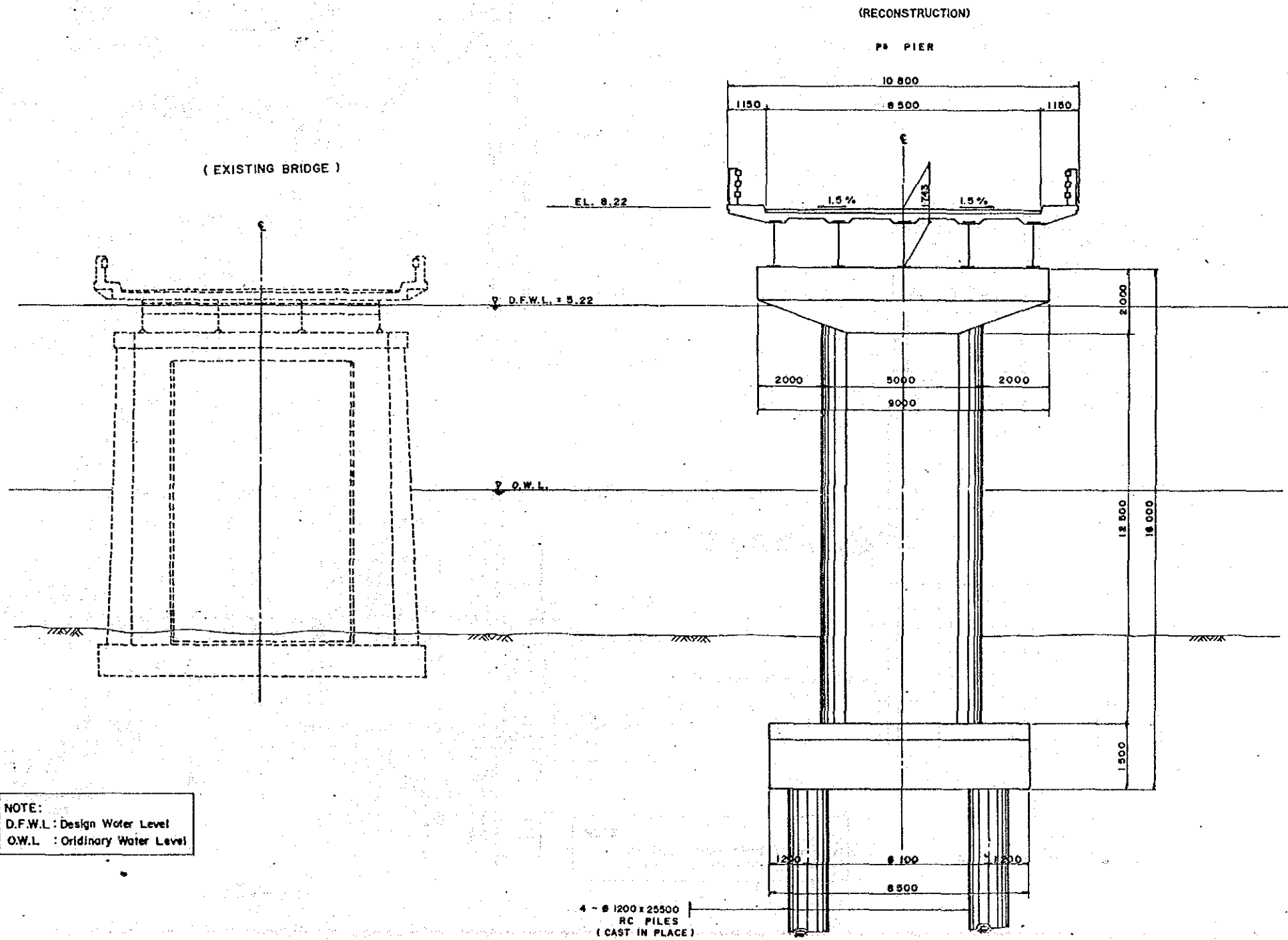
**P L A N**  
SCALE: 1:500



NOTE:  
D.F.W.L : Design Wa  
O.W.L : Ordinary

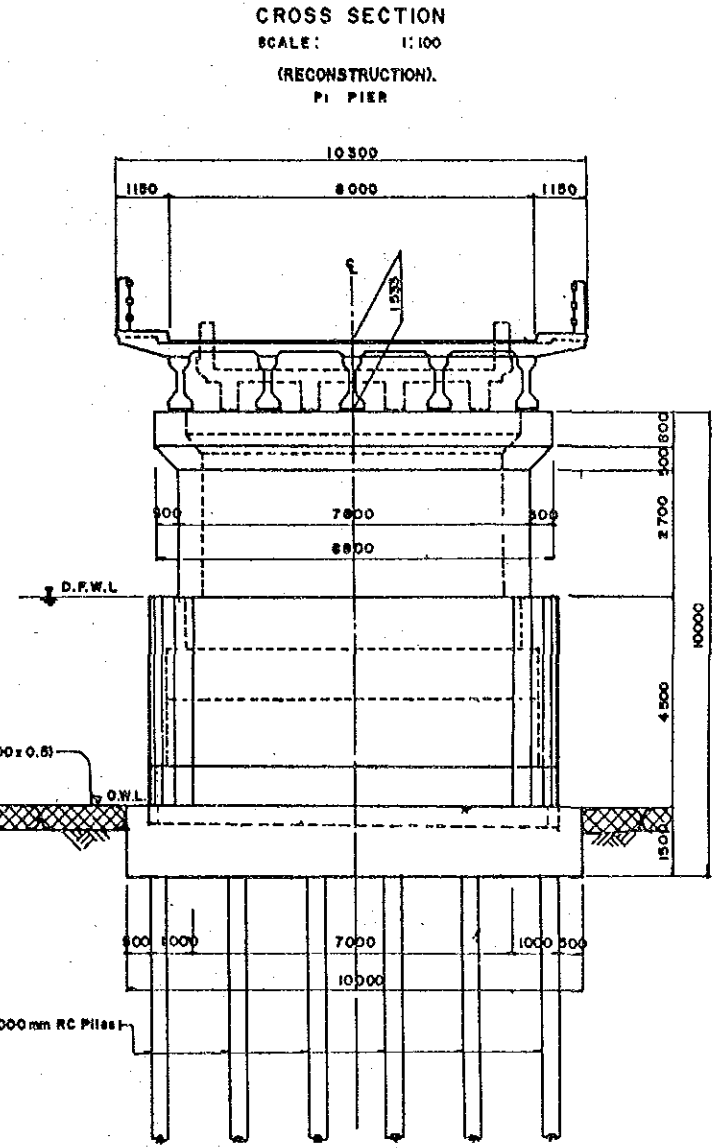
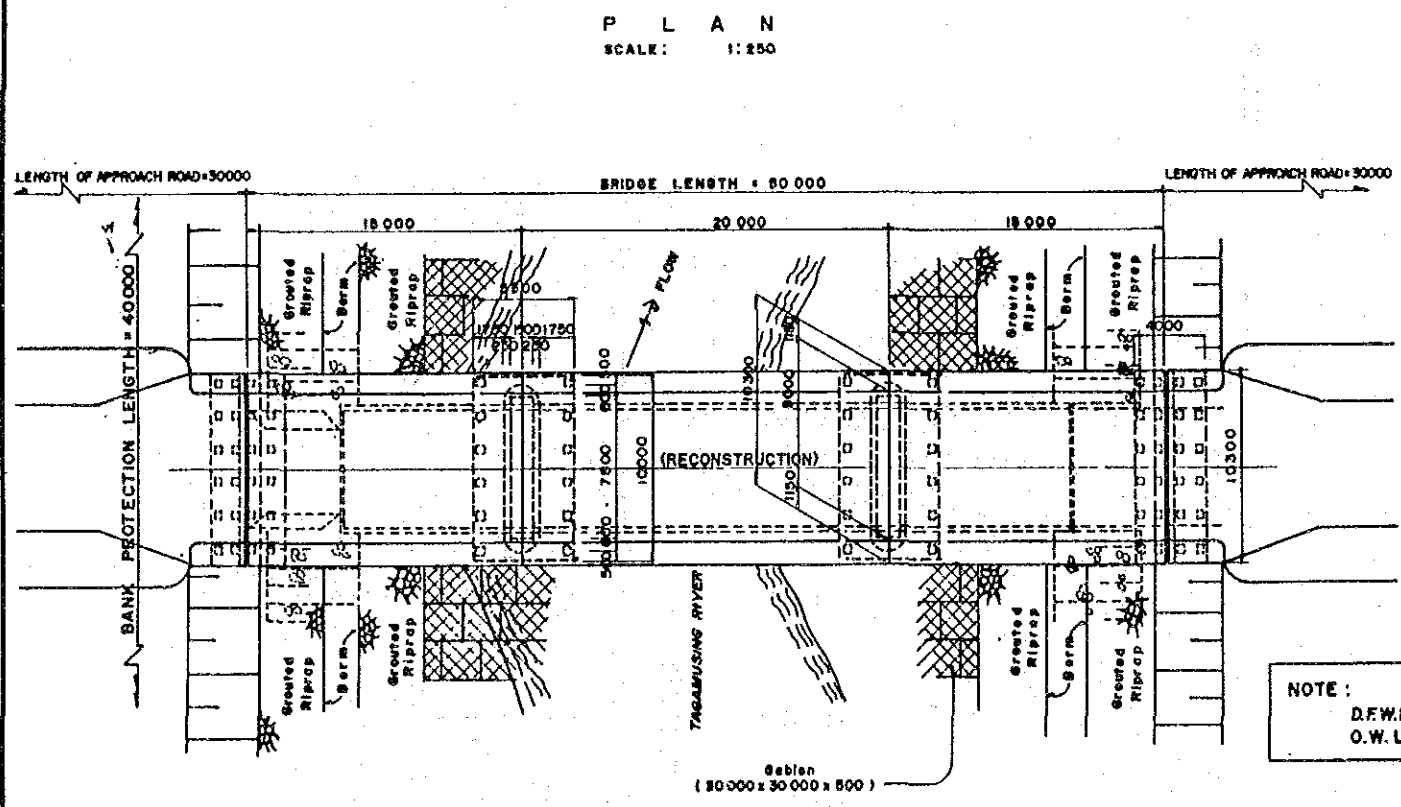
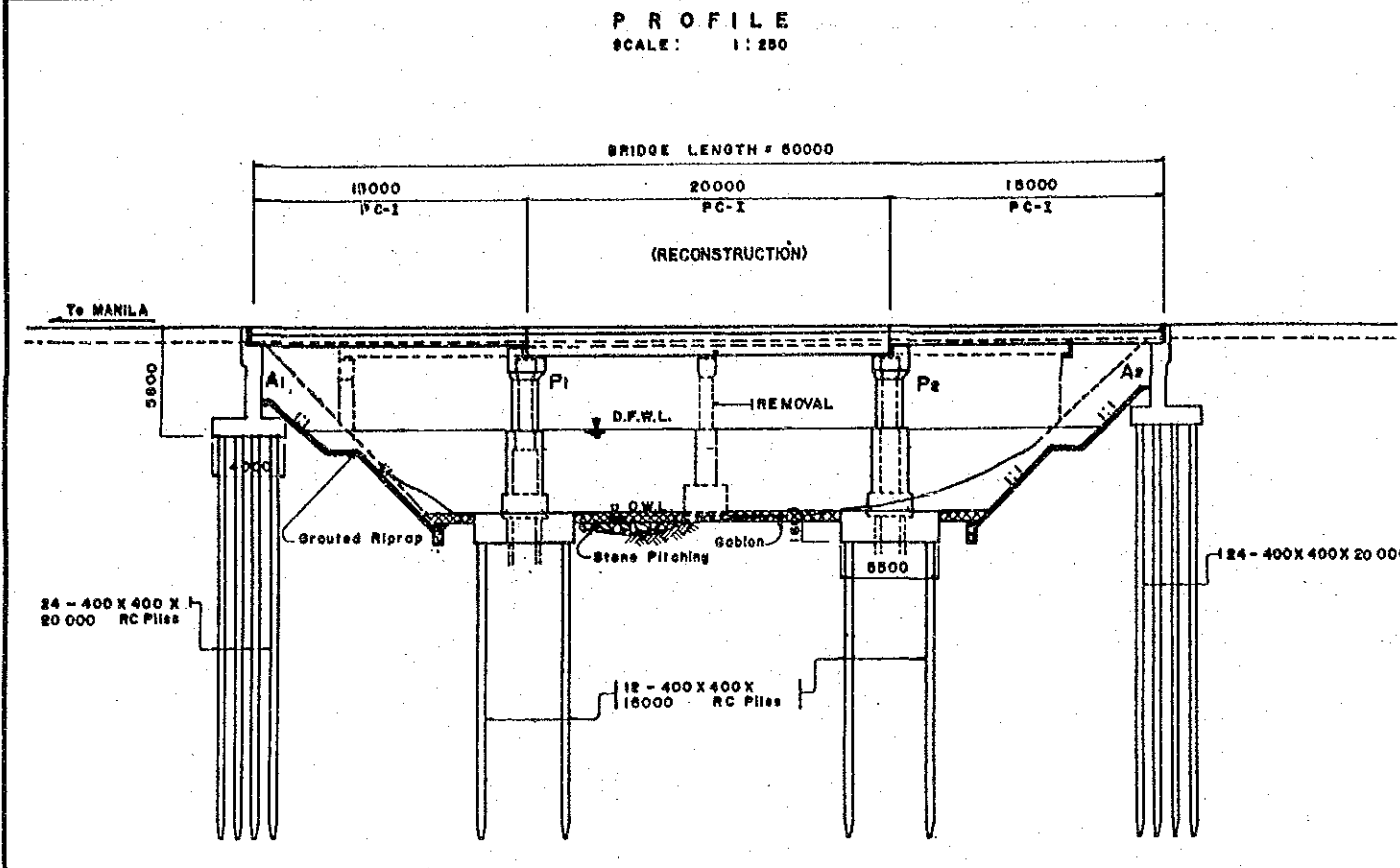
REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW :	14	LABANGAN I	1 : 500 1 : 100	1 / 25

CROSS SECTION  
SCALE 1:100





REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	54	TAGAMUSING	1:250 1:100	2/25

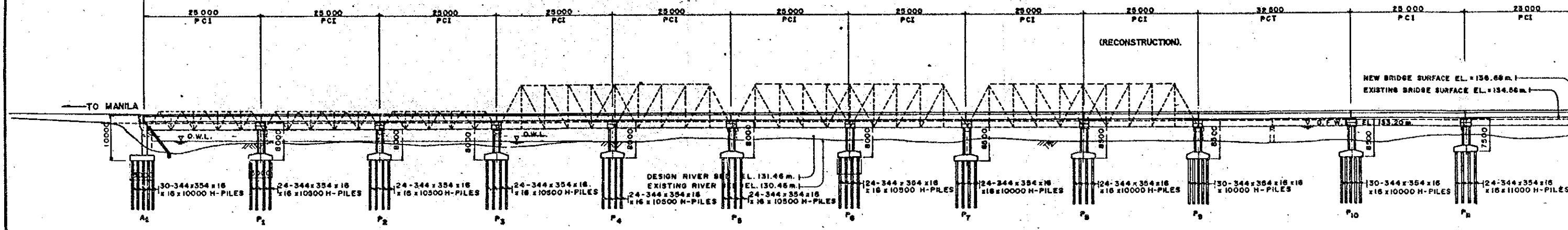


**NOTE:**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

DETOUR BRIDGE : NONE

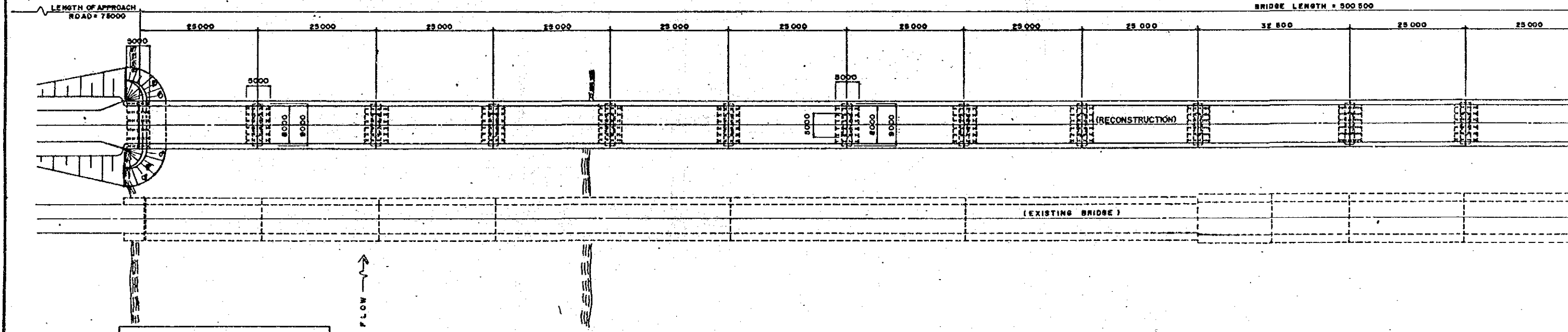
**PROFILE**  
SCALE: 1:500

BRIDGE LENGTH = 500 500



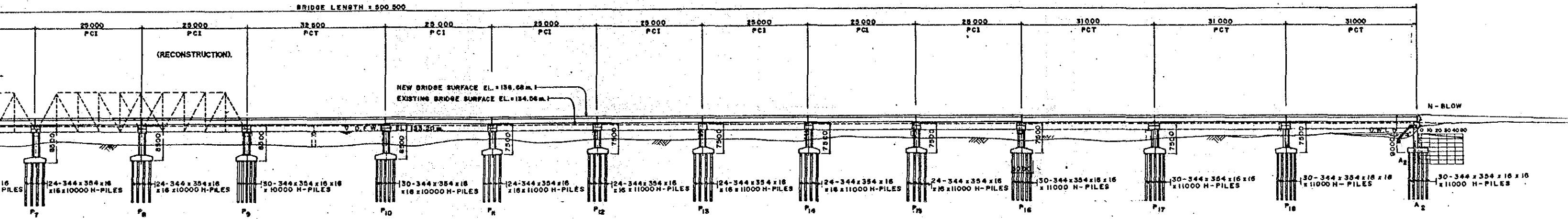
**P L A N**  
SCALE: 1:500

BRIDGE LENGTH = 500 500

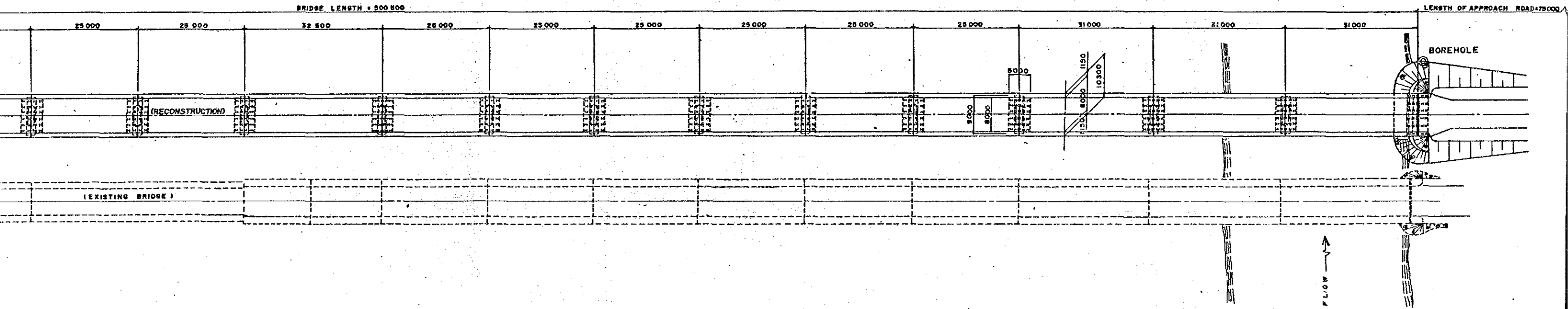


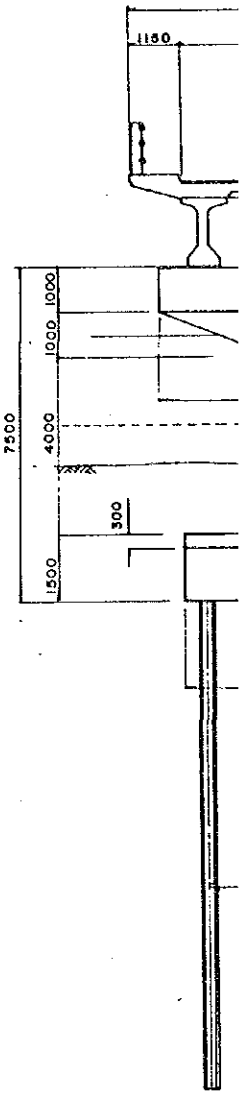
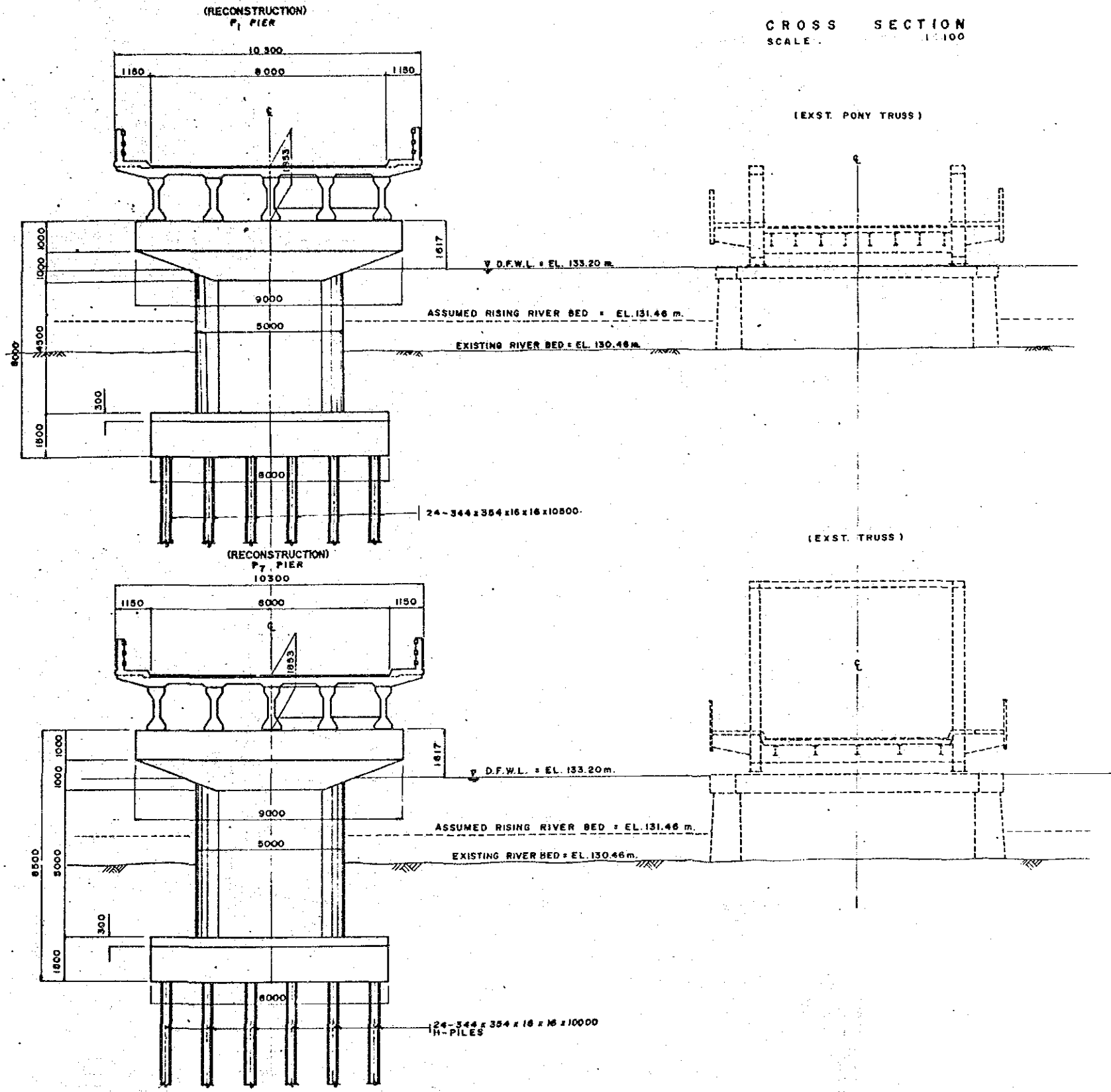
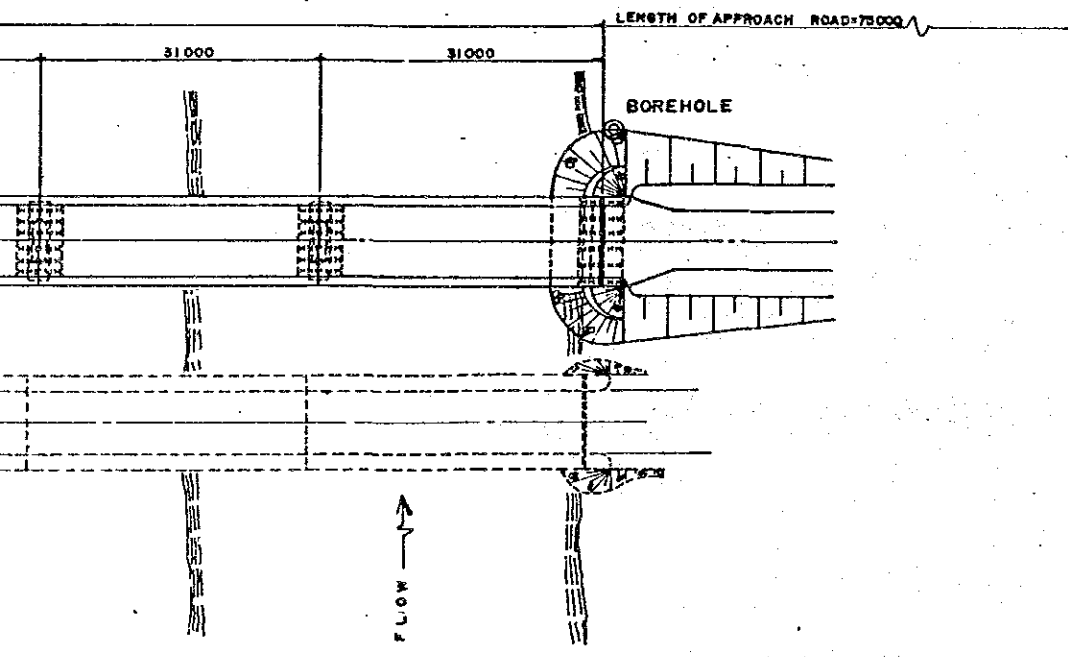
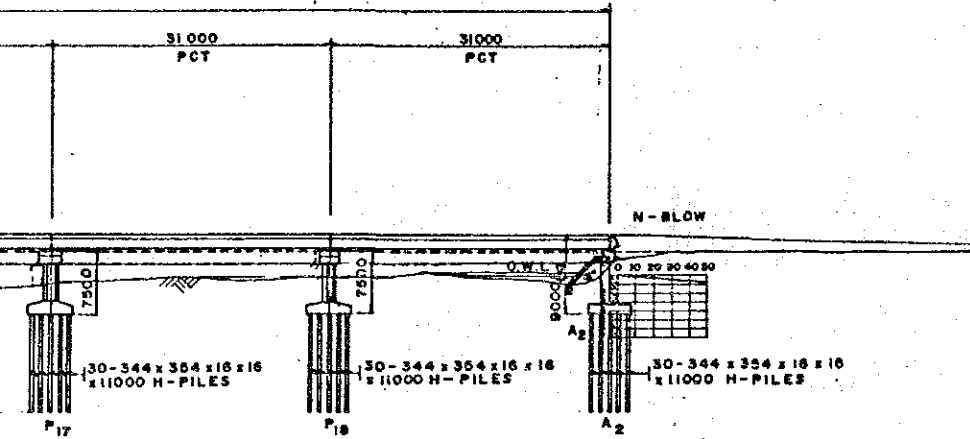
NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

**PROFILE**  
SCALE: 1:500



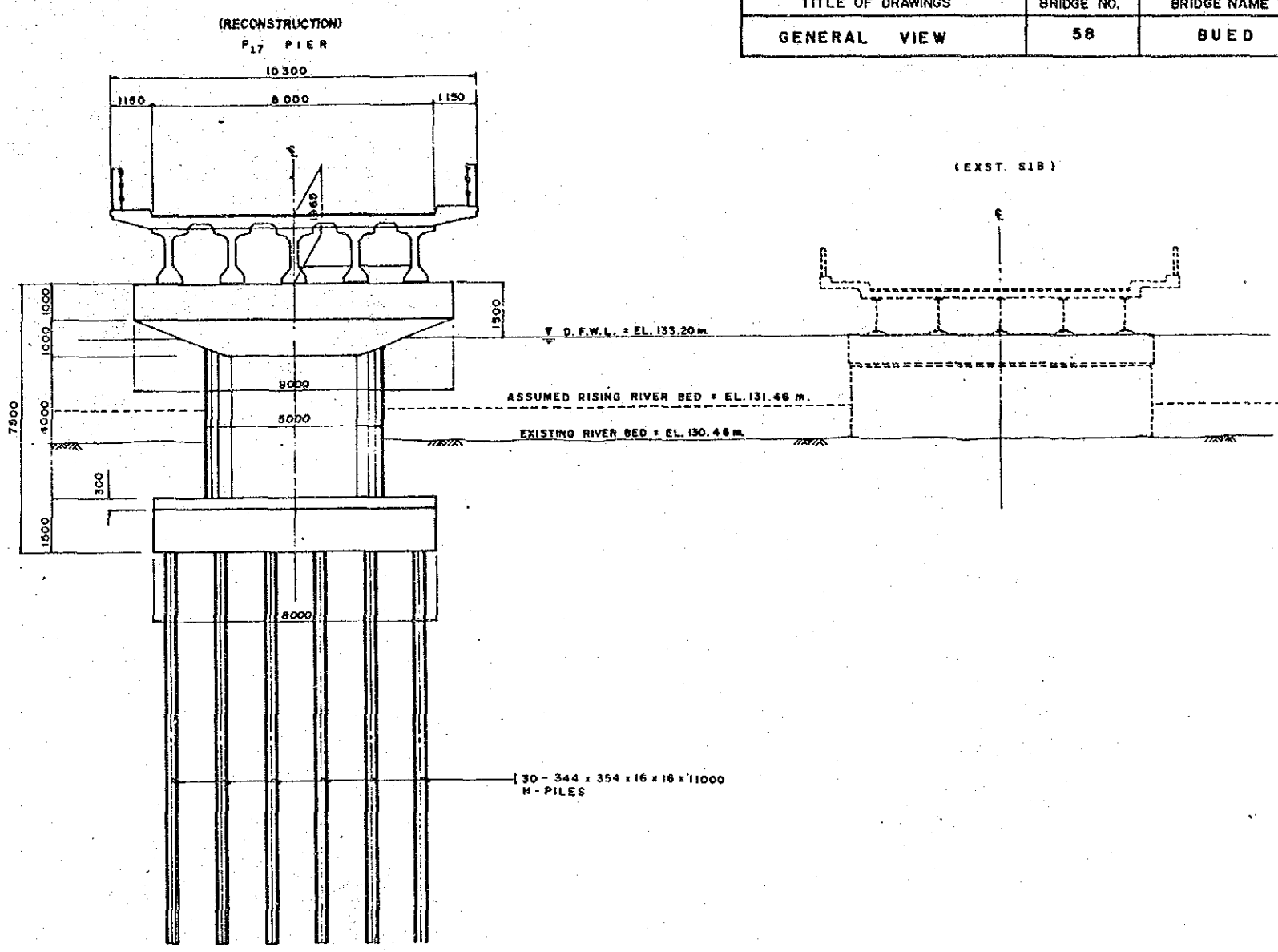
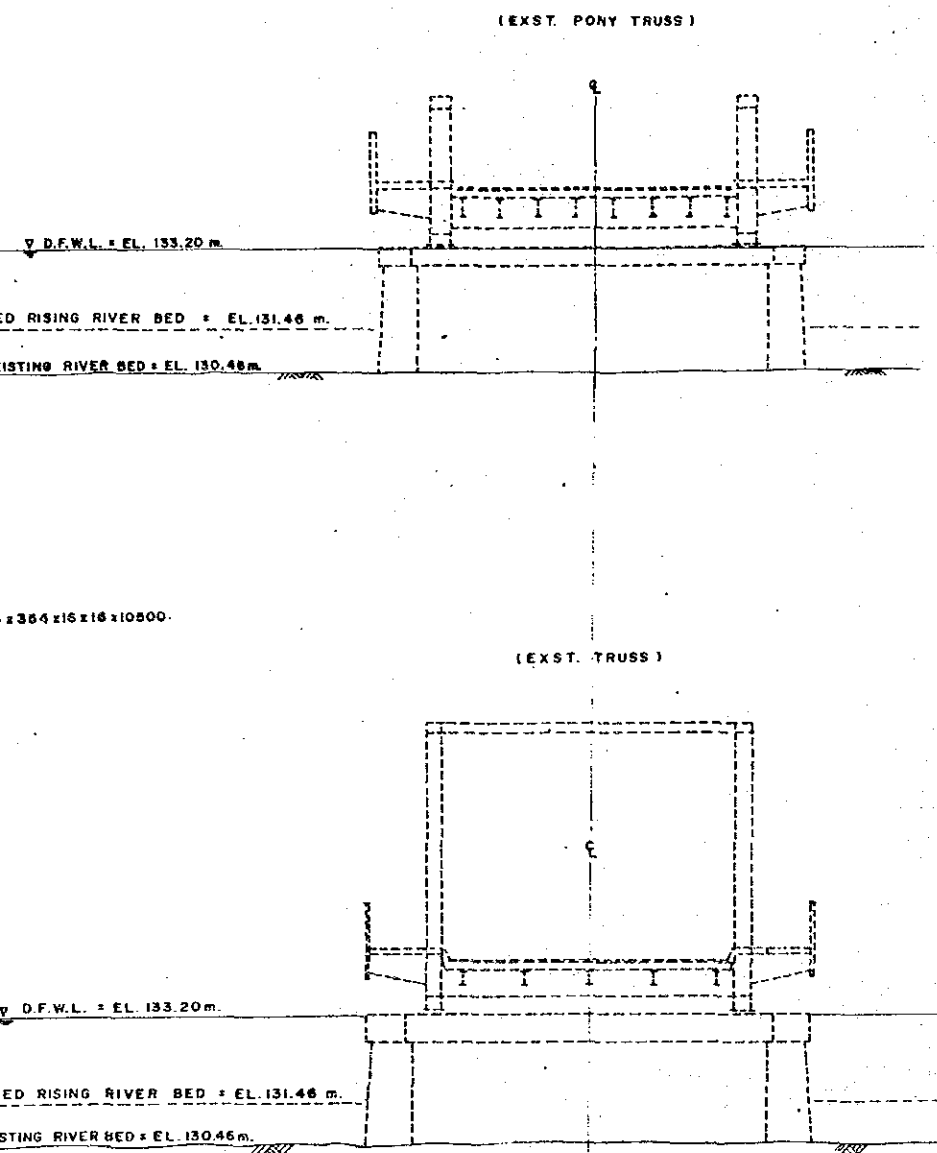
**P L A N**  
SCALE: 1:500





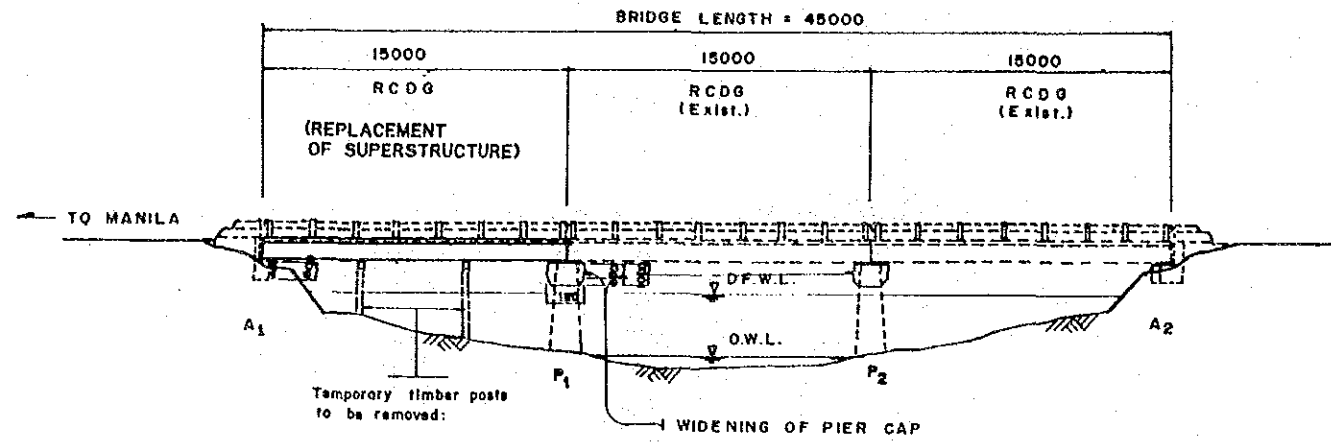
REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	58	BUE	1:500 1:100	3/25

CROSS SECTION  
SCALE 1:100

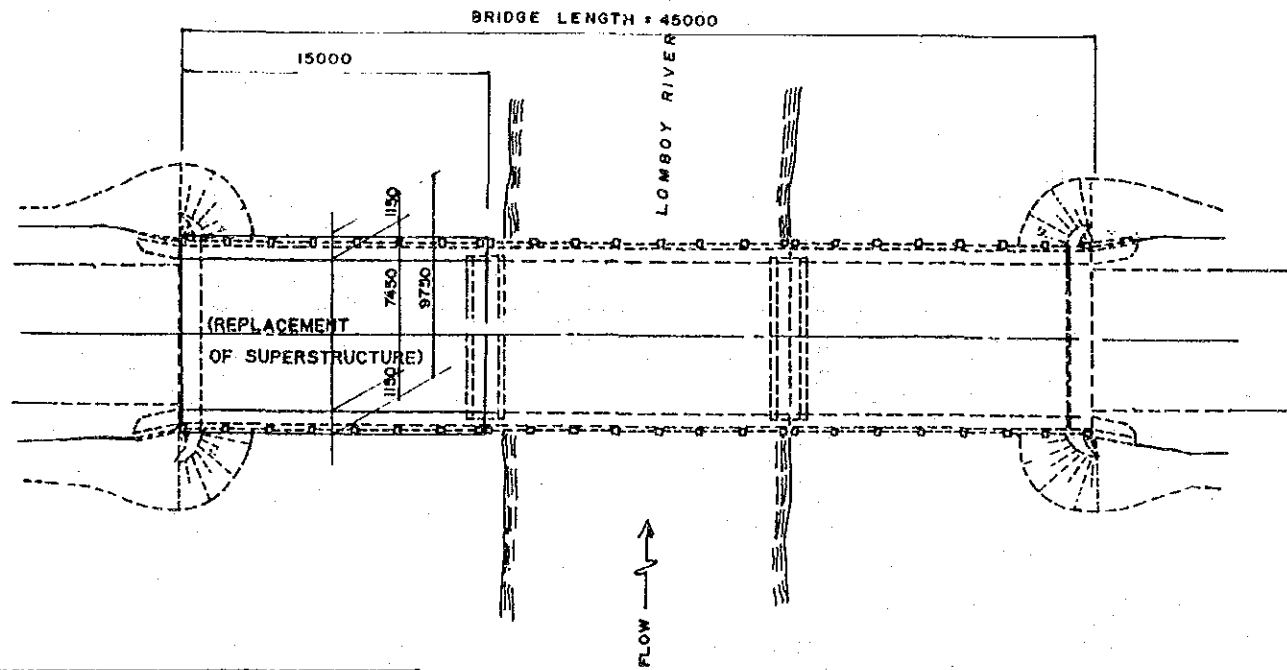


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	65	LOMBOY	1:250 1:100 1:50	4/25

**PROFILE**  
SCALE: 1:250

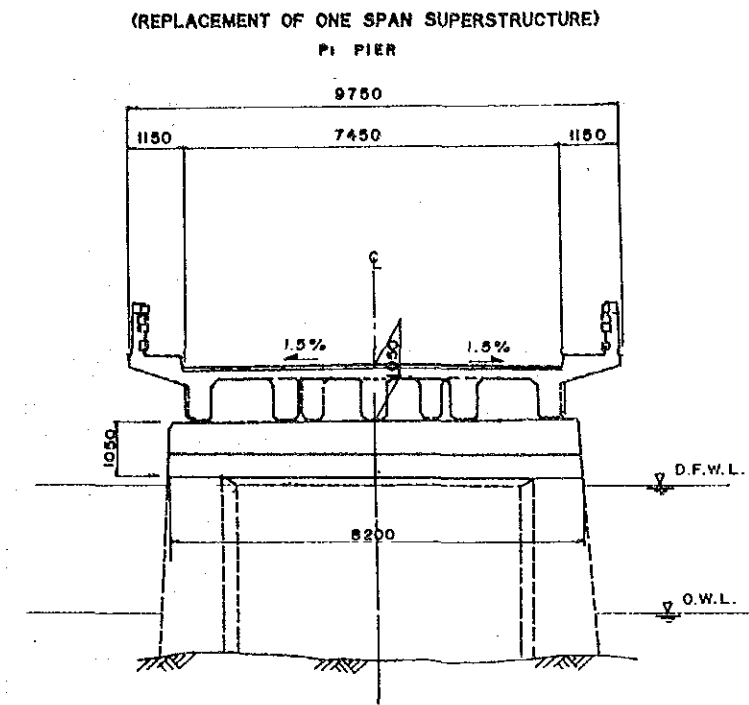


**P L A N**  
SCALE: 1:250

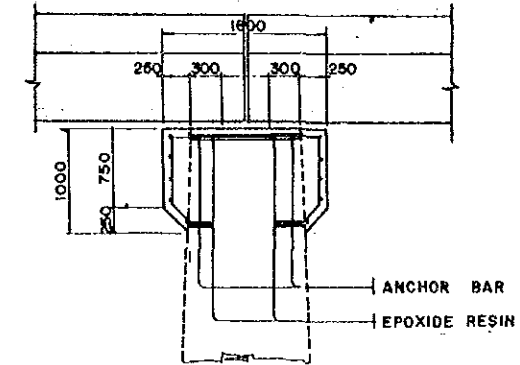


**NOTE:**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

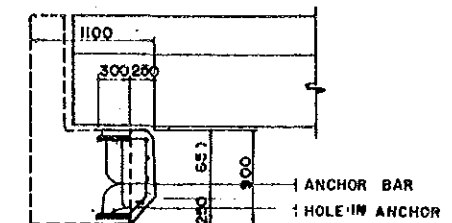
**CROSS SECTION**  
SCALE: 1:100



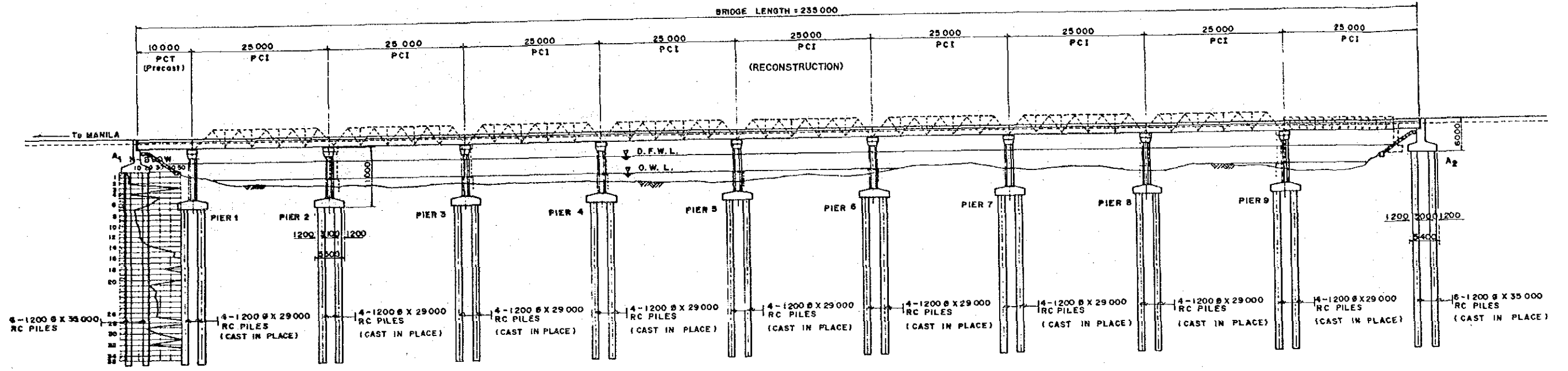
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SCALE: 1:50



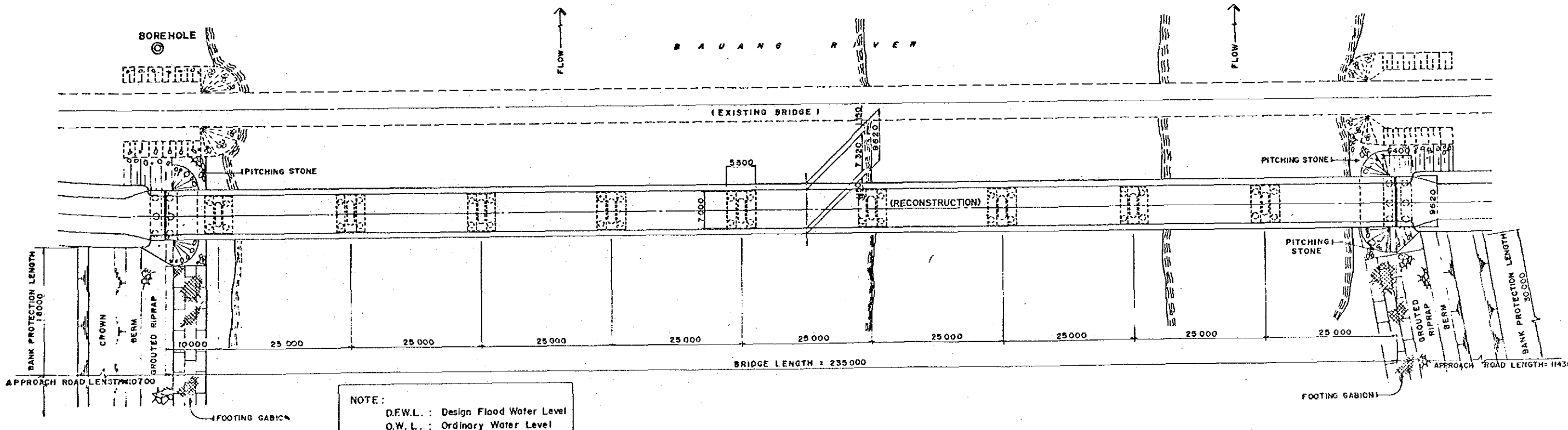
**WIDENING OF ABUTMENT**  
SCALE: 1:50



PROFILE  
SCALE: 1:500

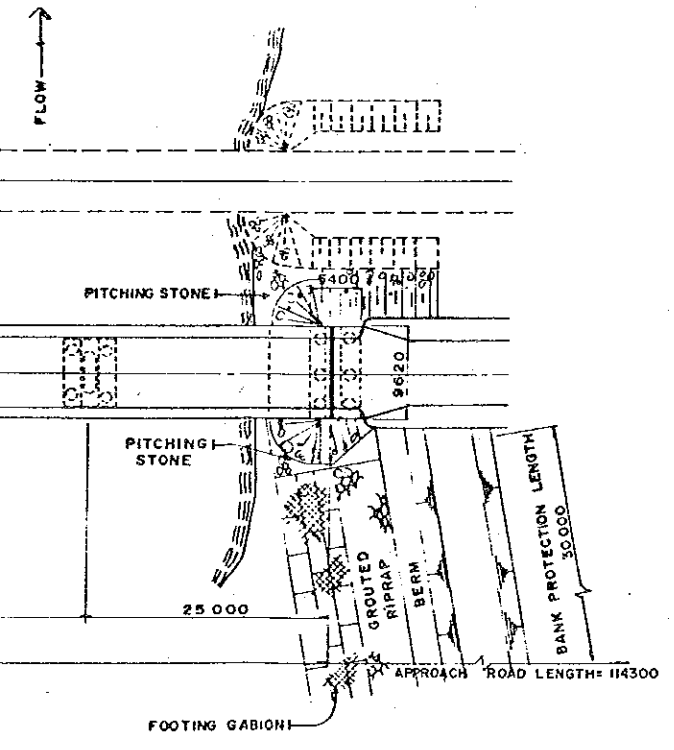
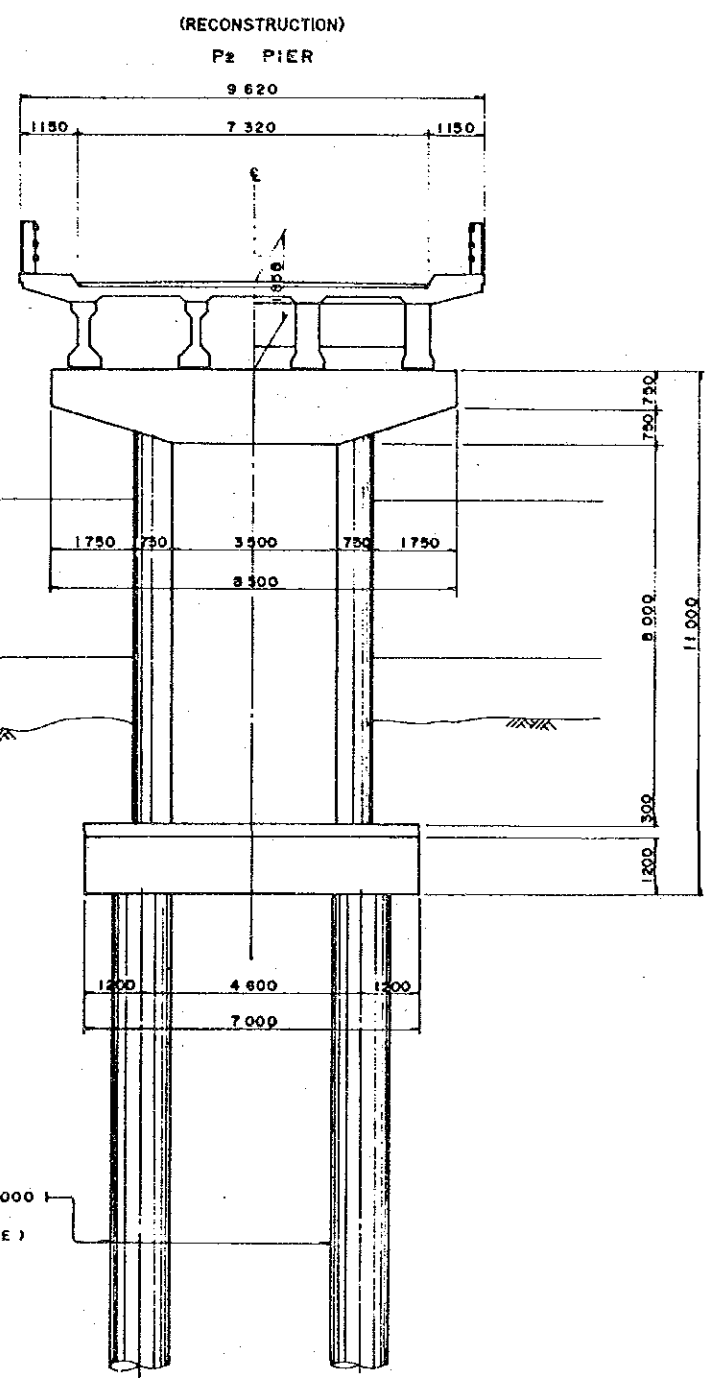
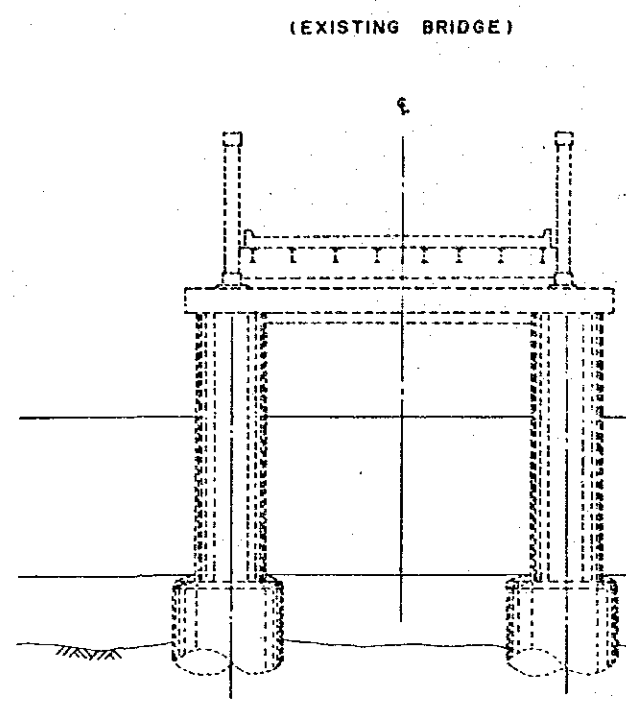
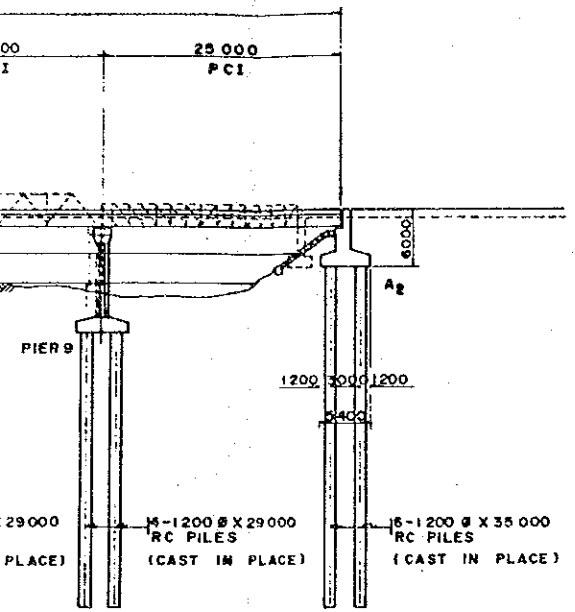


P L A N  
SCALE: 1:500



REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	77	BAUANG I	1: 500 1: 100	5/25

CROSS SECTION  
SCALE: 1:100

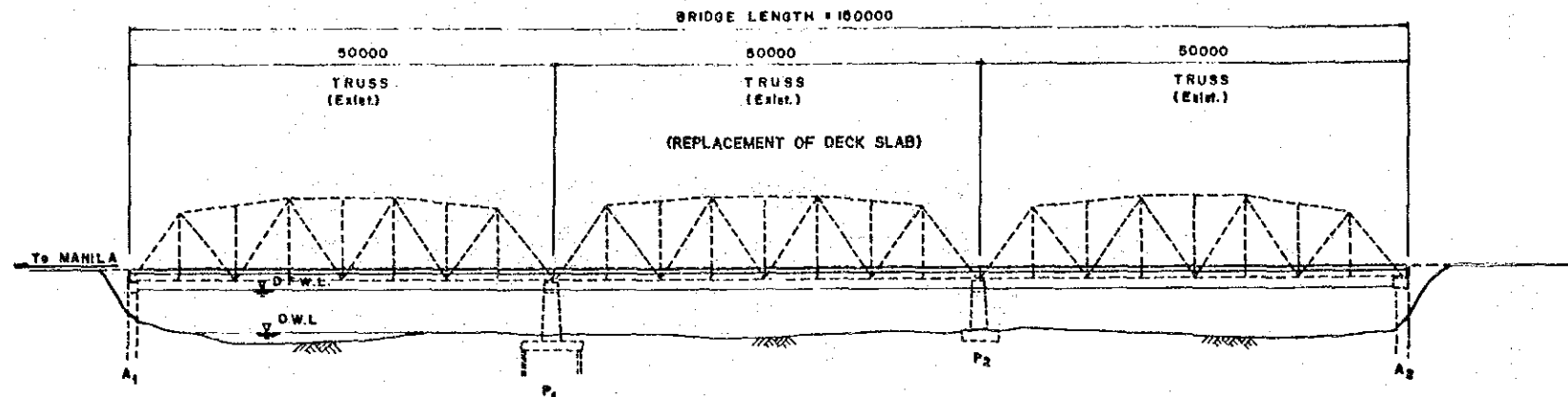


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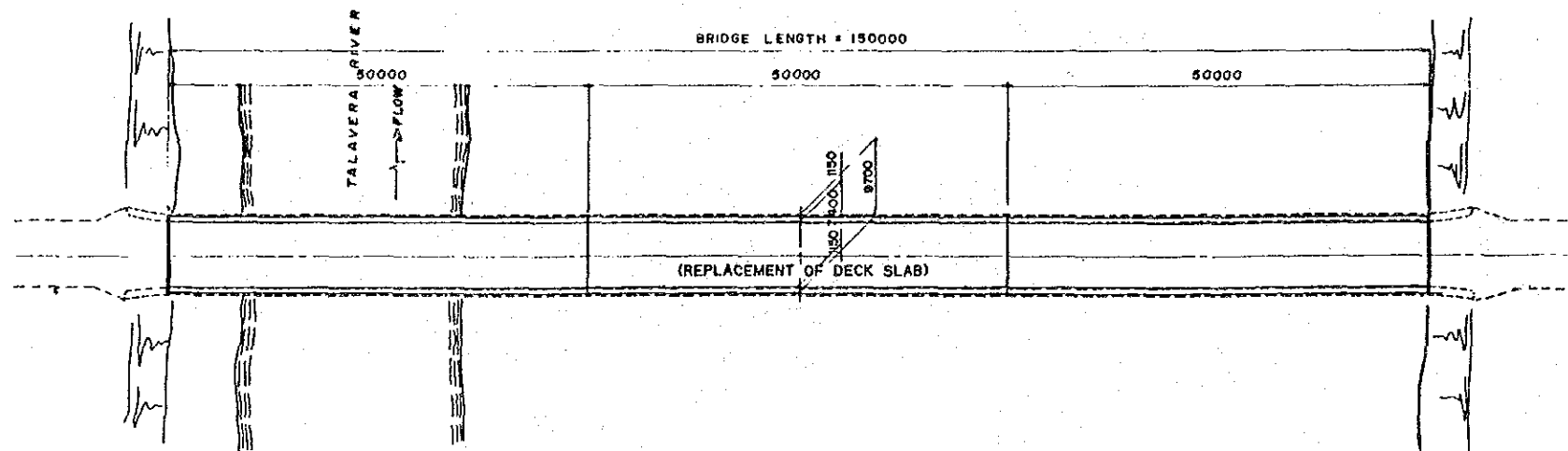


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL			
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE
GENERAL VIEW	43	SICSICAN	1:500 1:100

**PROFILE**  
SCALE: 1:500

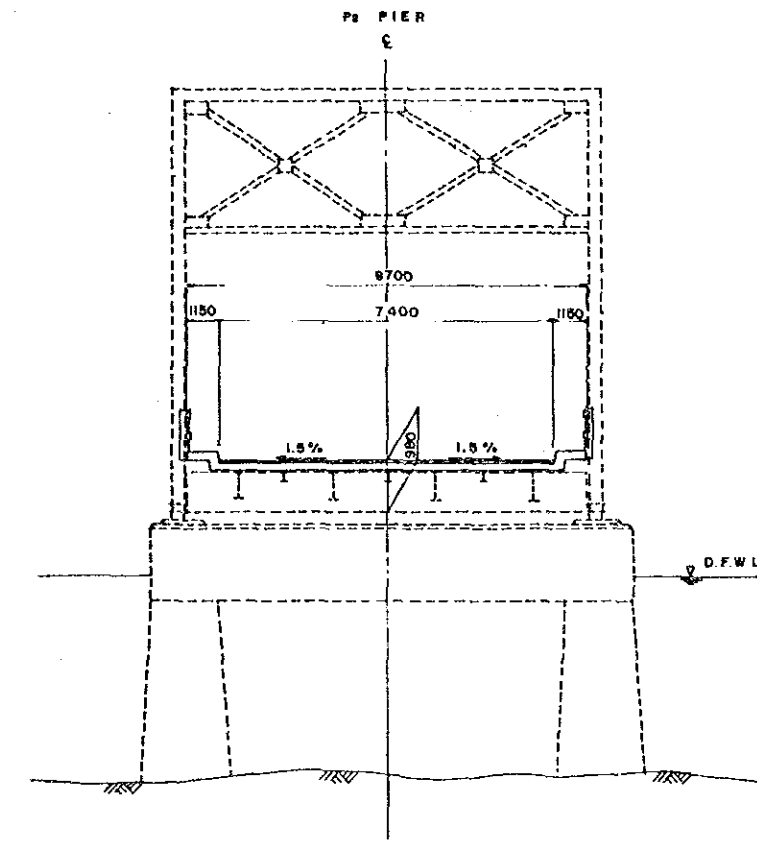


**P L A N**  
SCALE: 1:500



NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

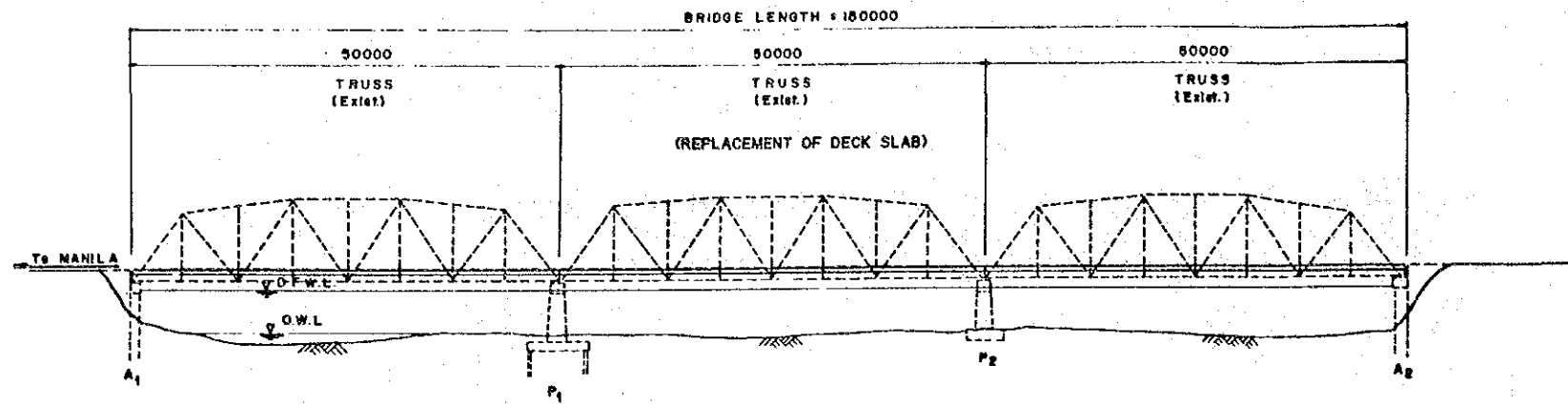
**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT/REINFORCEMENT OF DECK SLAB)



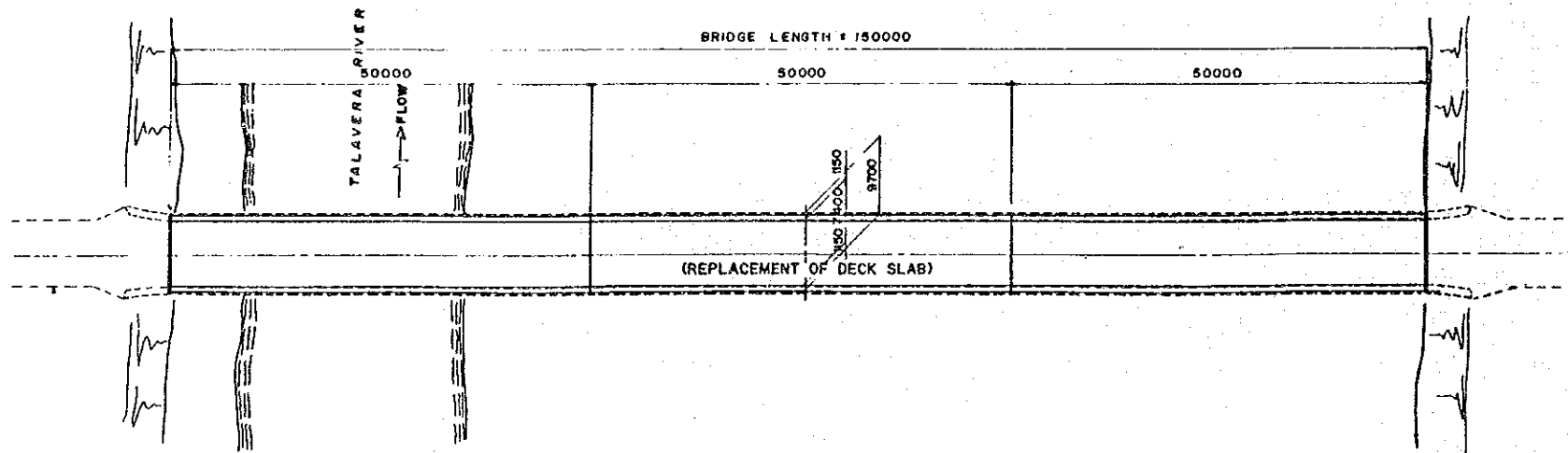
DETOUR BRIDGE : NONE

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	43	SIGSICAN	1:500 1:100	6/25

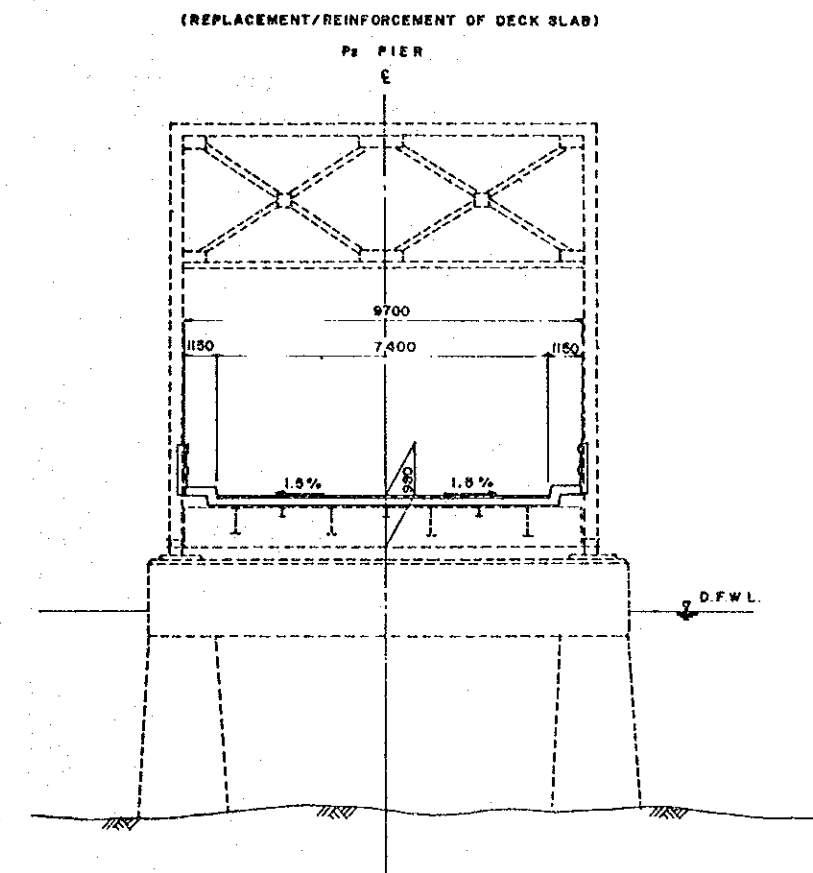
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SCALE: 1:500



**P L A N**  
SCALE: 1:500



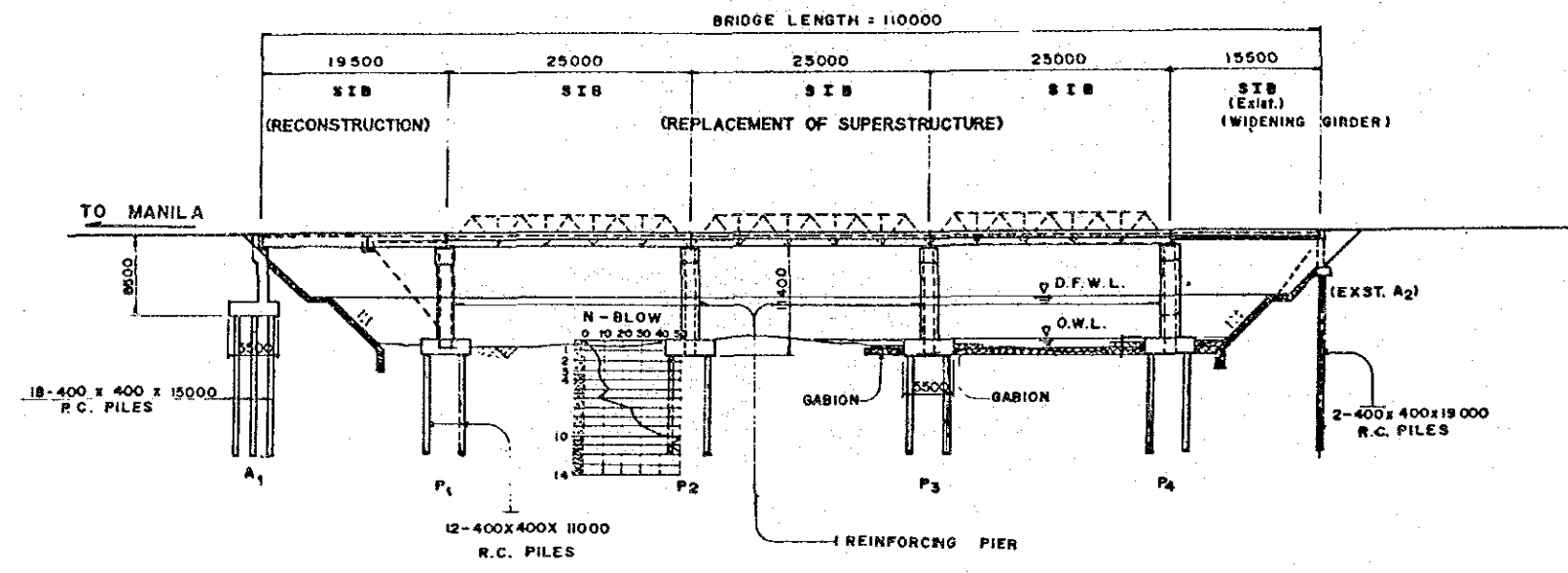
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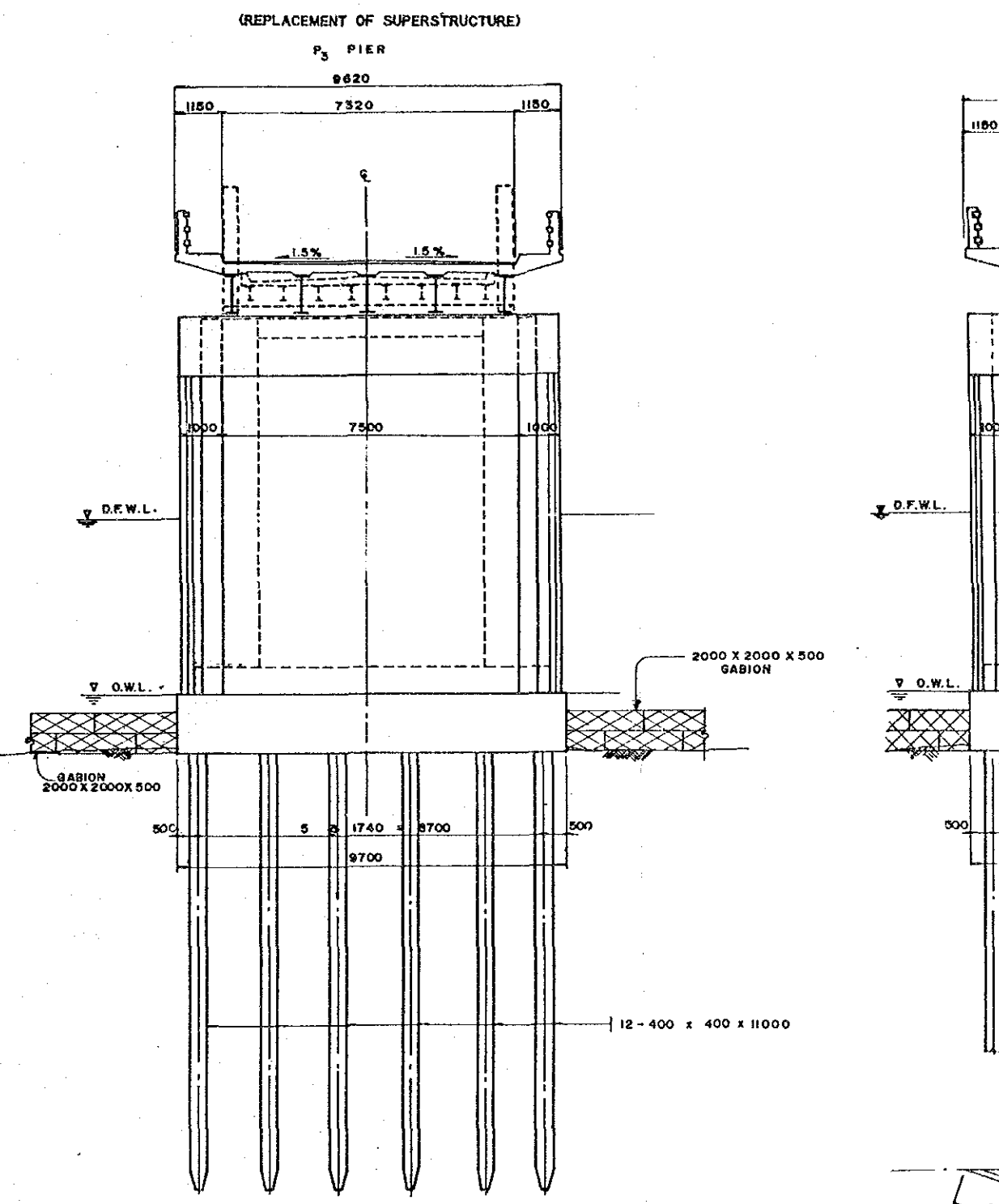
DETOUR BRIDGE : NONE

NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

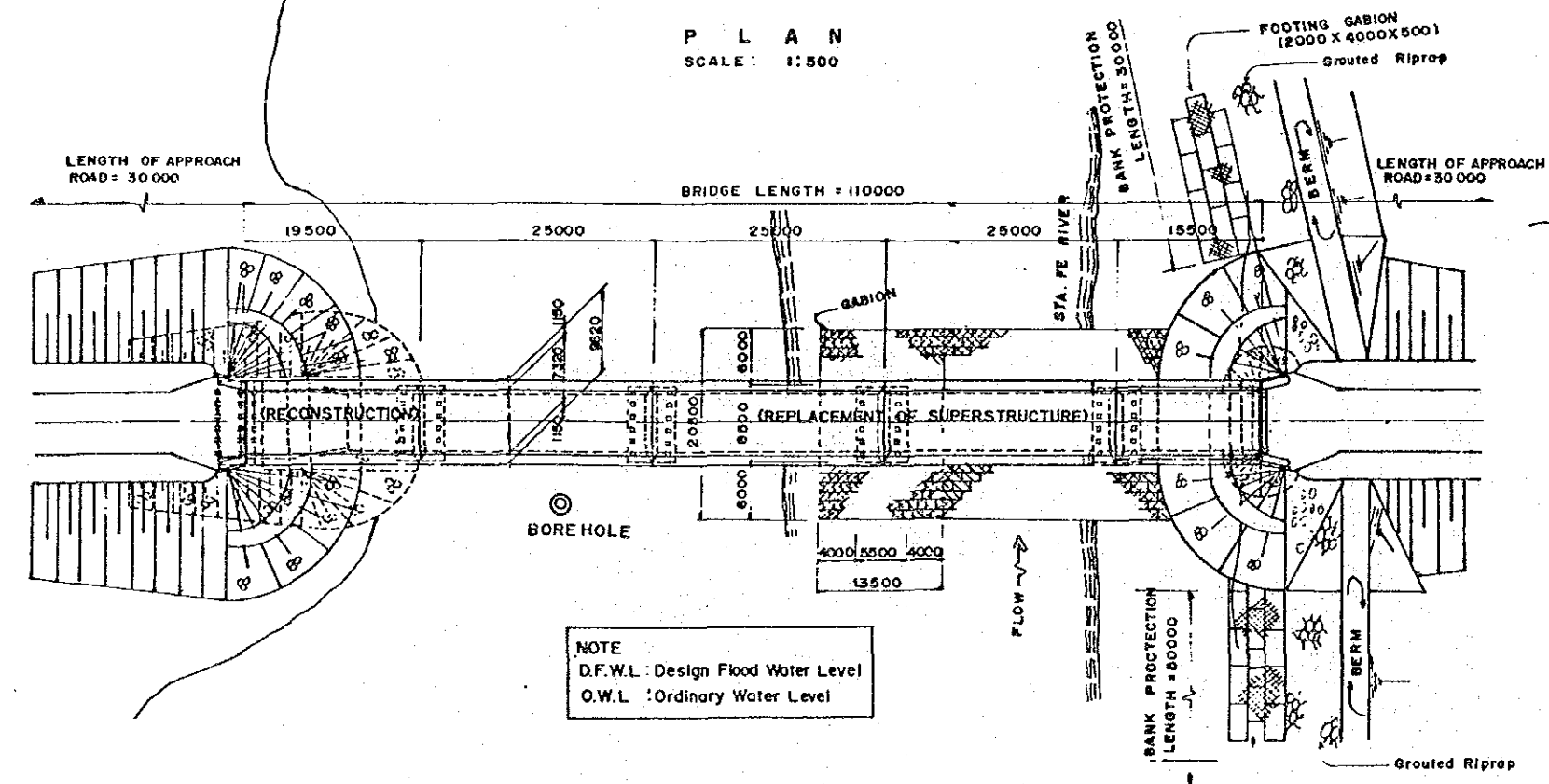
**PROFILE**  
SCALE: 1:500



**CROSS SECTION**  
SCALE: 1:100



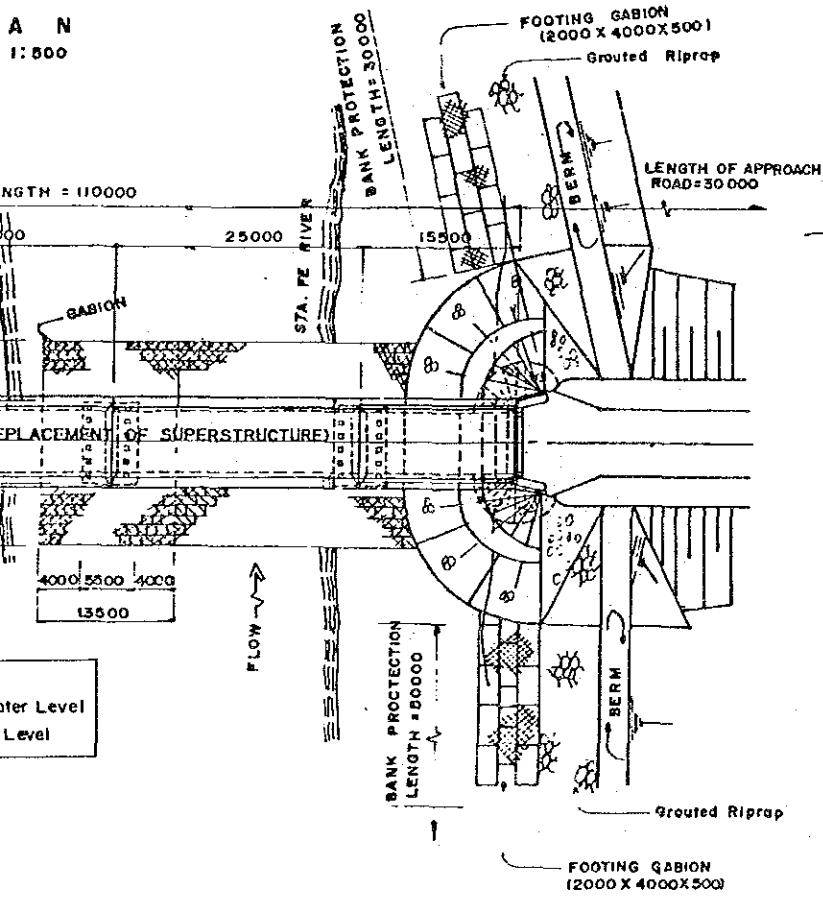
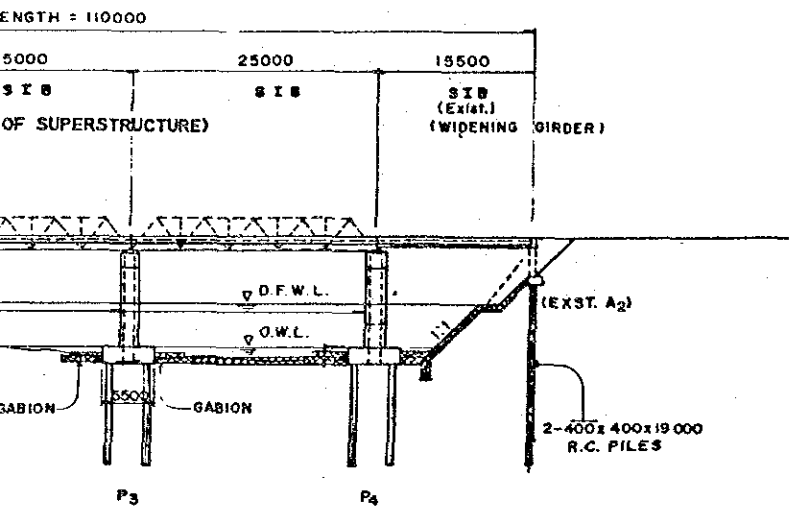
**PLAN**  
SCALE: 1:500



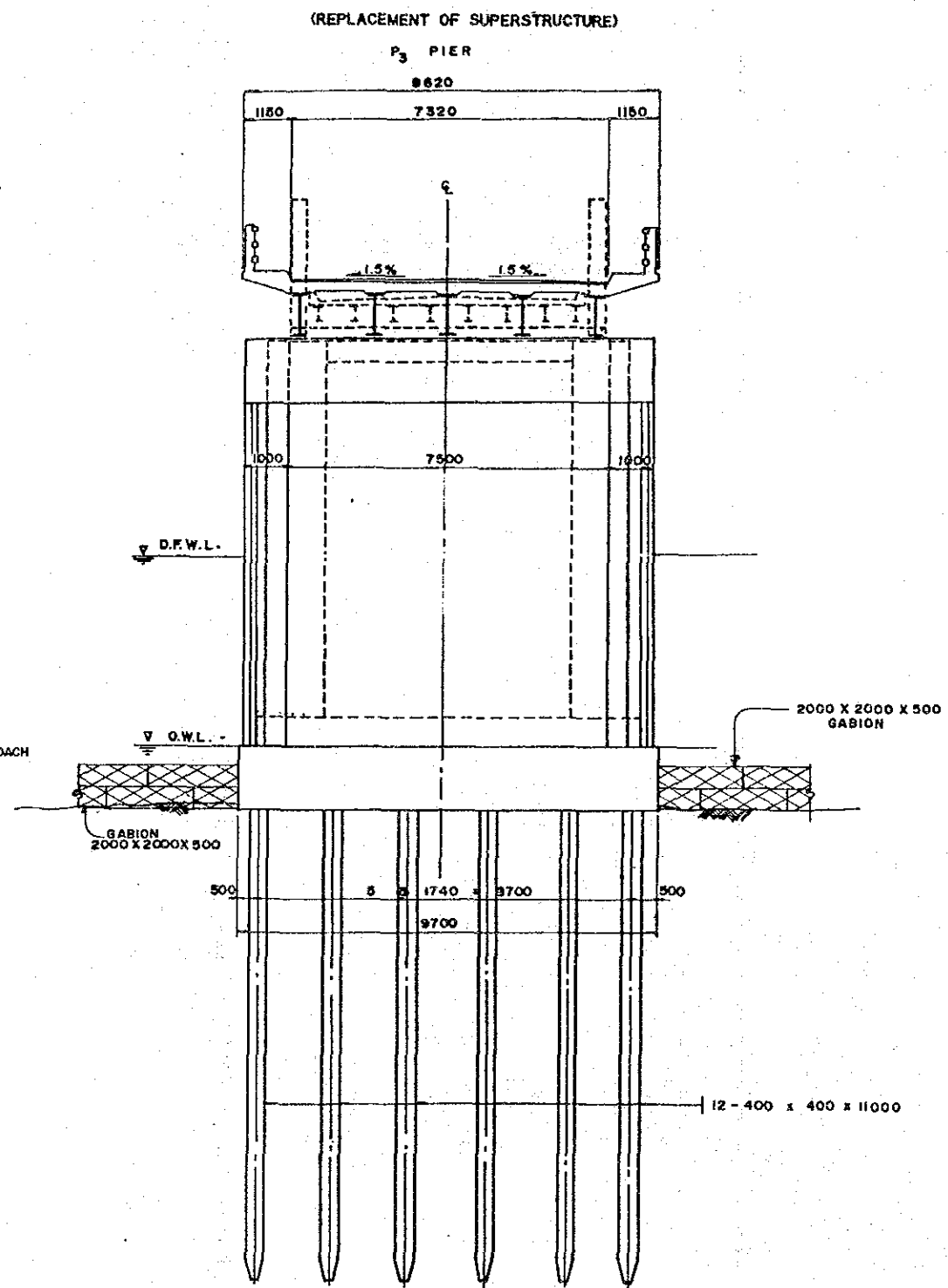
NOTE  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

NOTE:  
\* Two lane detour

FILE  
1:500

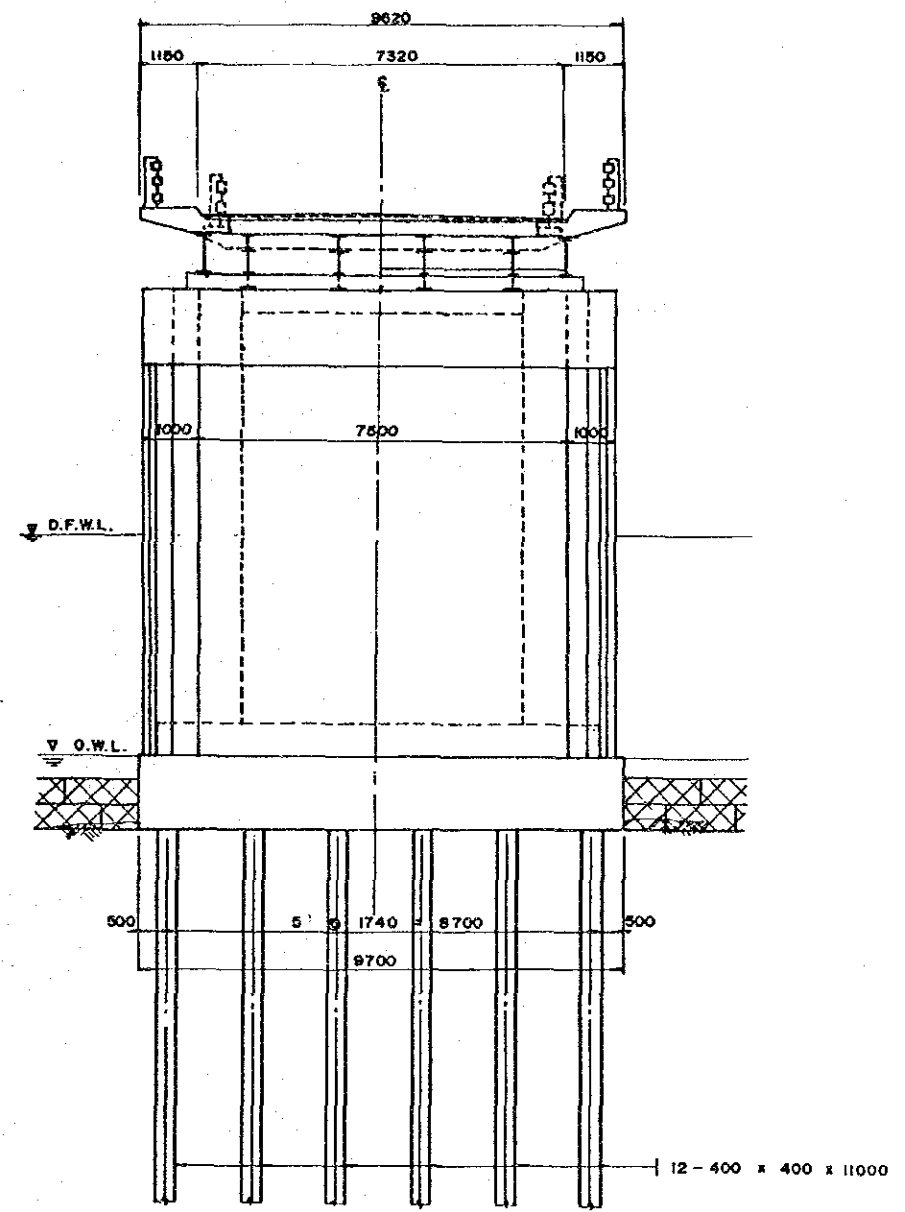


CROSS SECTION  
SCALE: 1:100

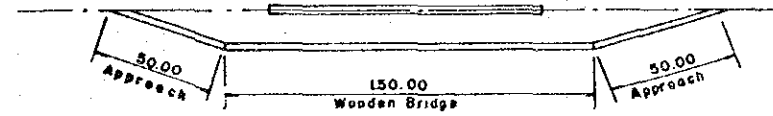


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	71	INDIANA	1:500 1:100	7/28

(WIDENING GIRDER)

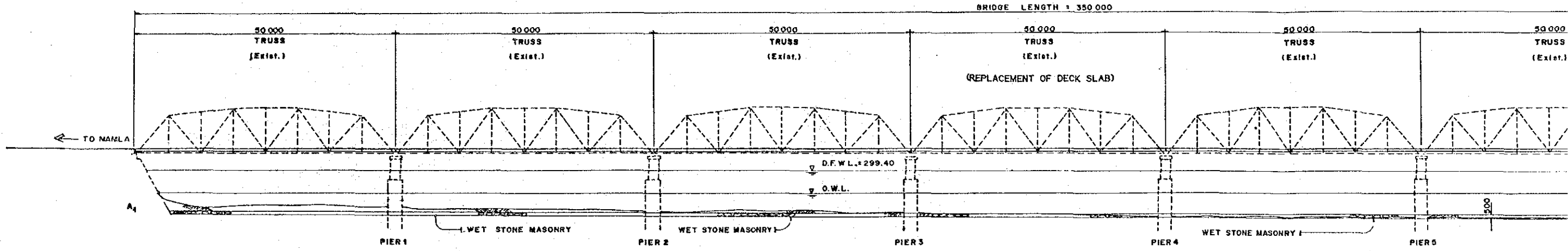


DETOUR BRIDGE  
SCALE 1:20

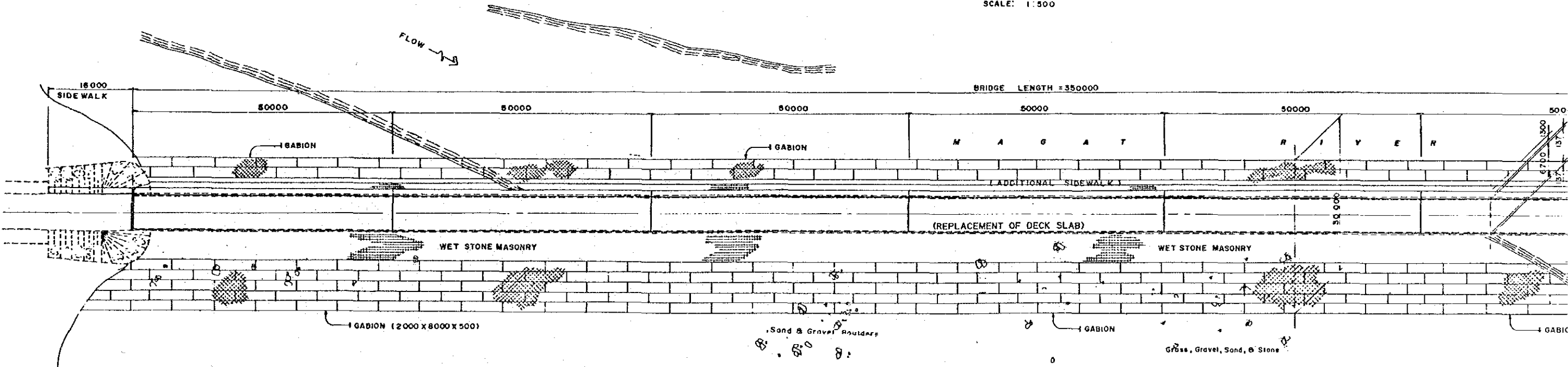


NOTE:  
\* Two lane detour

**PROFILE**  
SCALE: 1:500

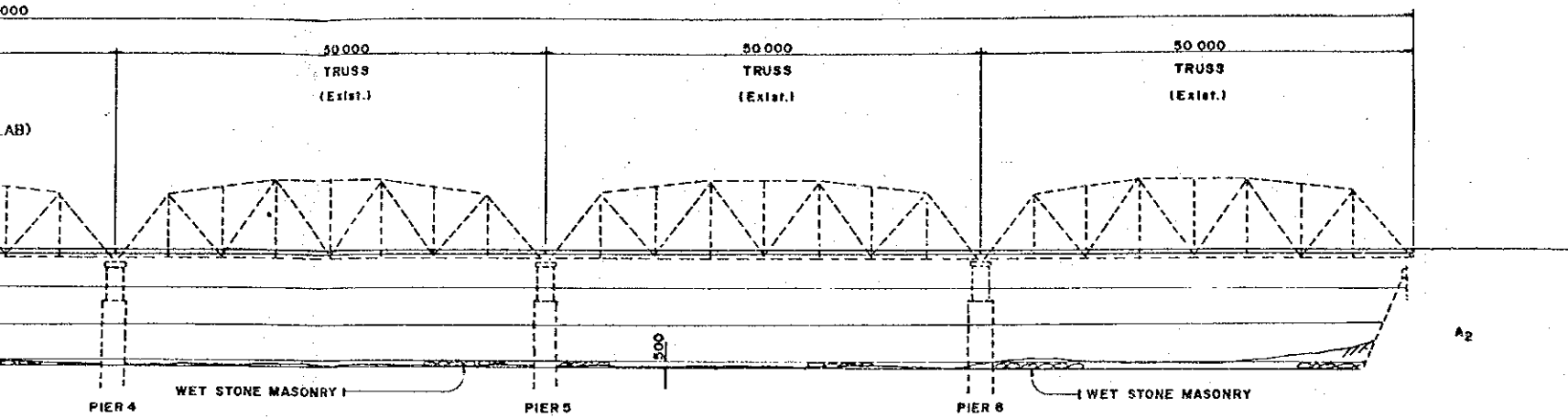


**PLAN**  
SCALE: 1:500

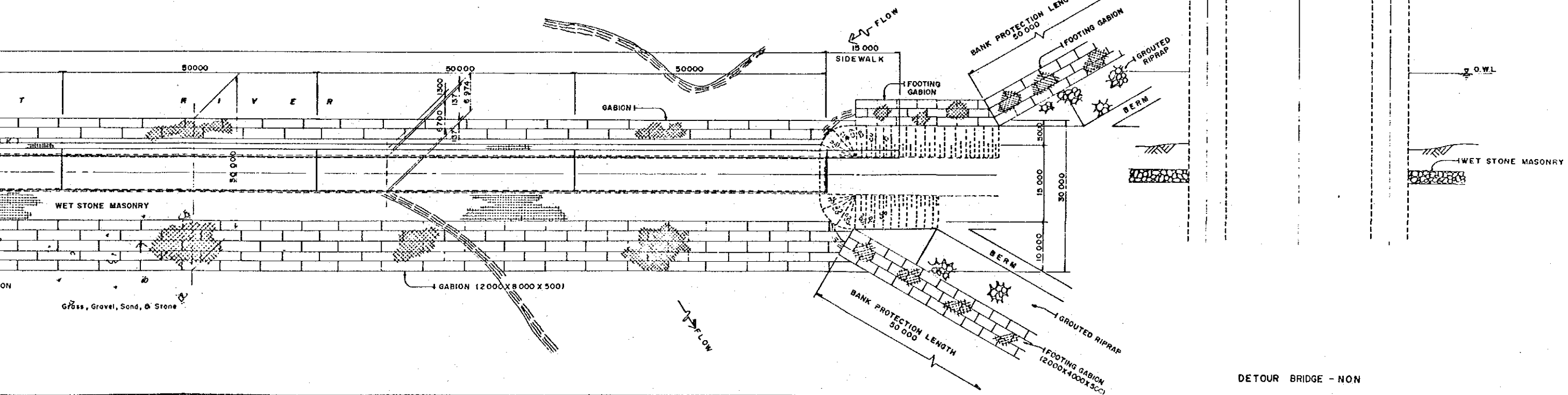
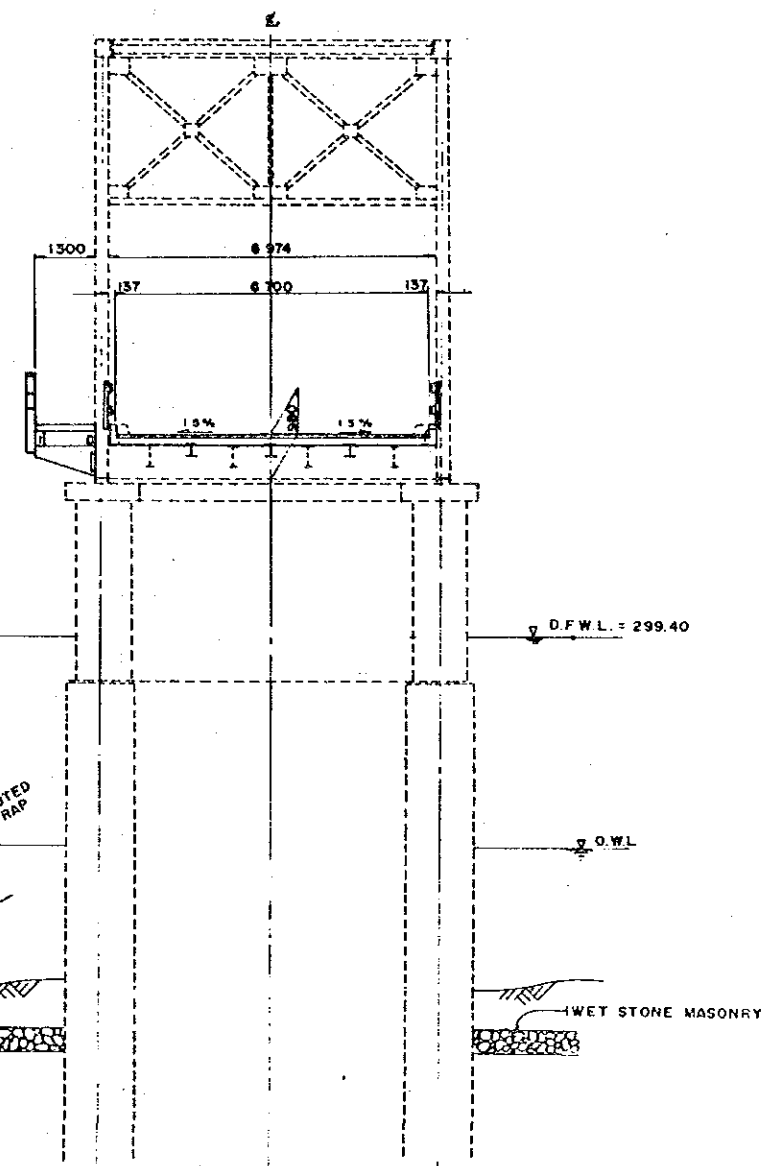


**NOTE**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	73	BATU	1:500 1:100	8/25

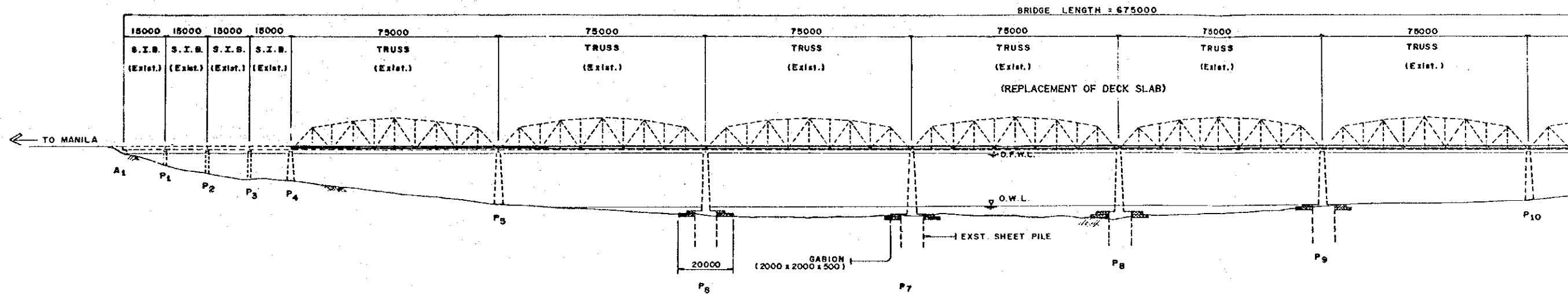


CROSS SECTION  
SCALE: 1:100  
(REPLACEMENT/REINFORCEMENT OF DECK SLAB, ADDITIONAL SIDEWALK)



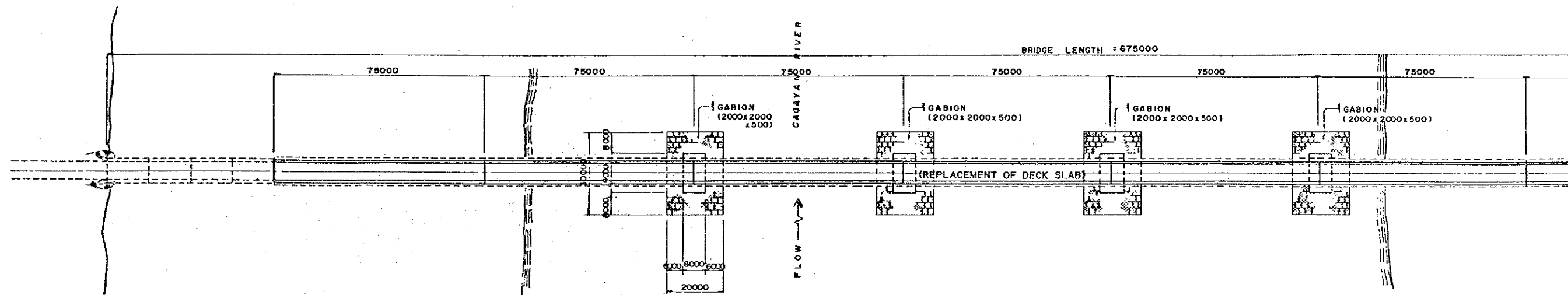
PROFILE

SCALE: 1:1000



PLAN

SCALE: 1:1000

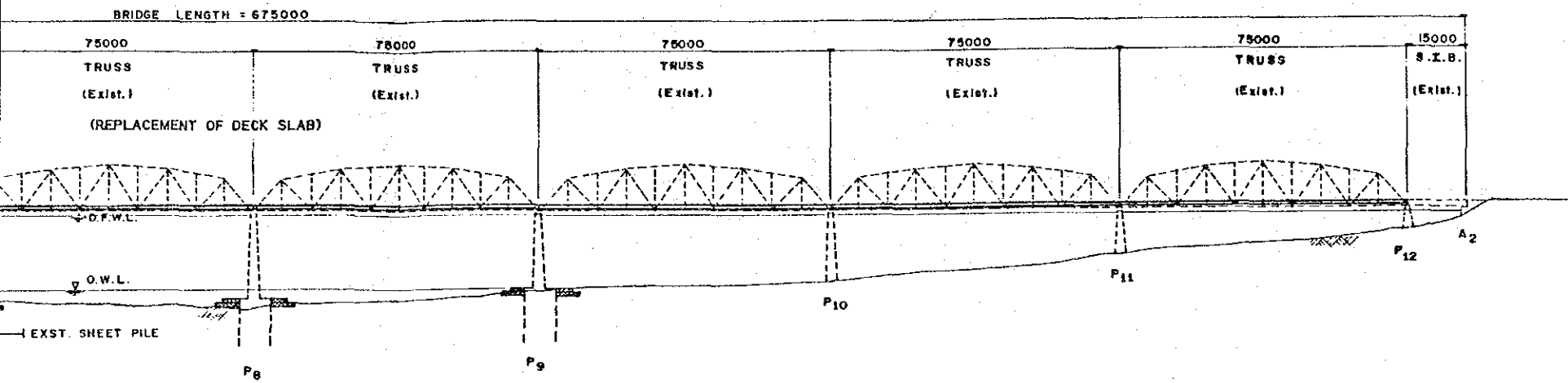


NOTE:  
 D.F.W.L. : Design Flood Water Level  
 O.W.L. : Ordinary Water Level

REHABILITATION AND MAINTENANCE OF	
TITLE OF DRAWINGS	BRIDGE NO.
GENERAL VIEW	109

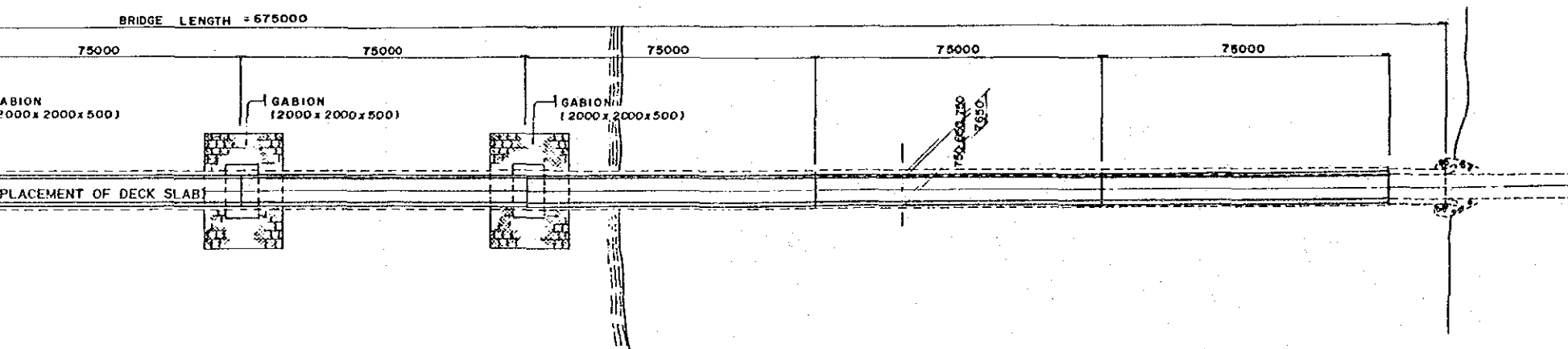
**PROFILE**

SCALE: 1:1000



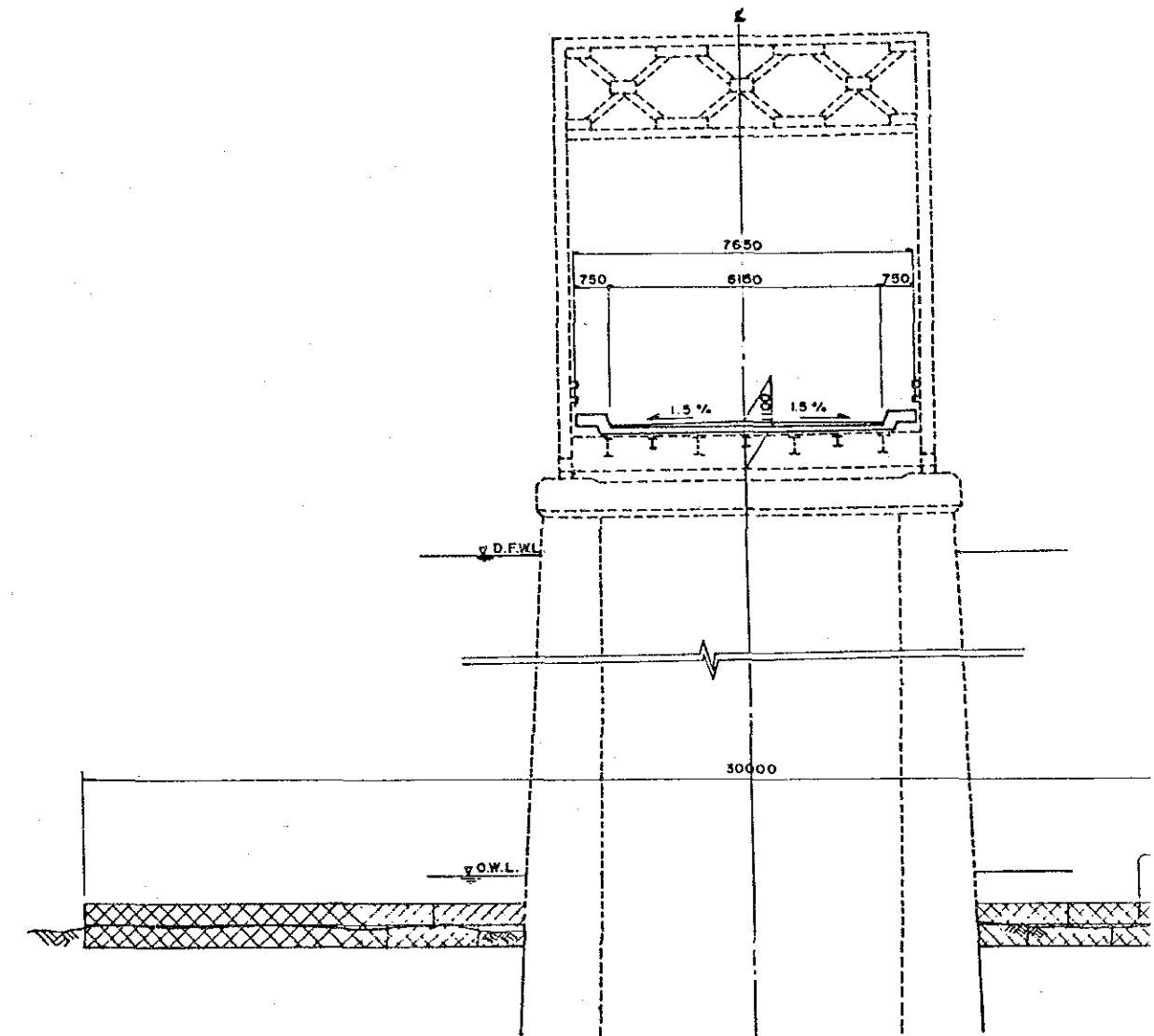
**PLAN**

SCALE: 1:1000



DETOUR BRIDGE : NONE

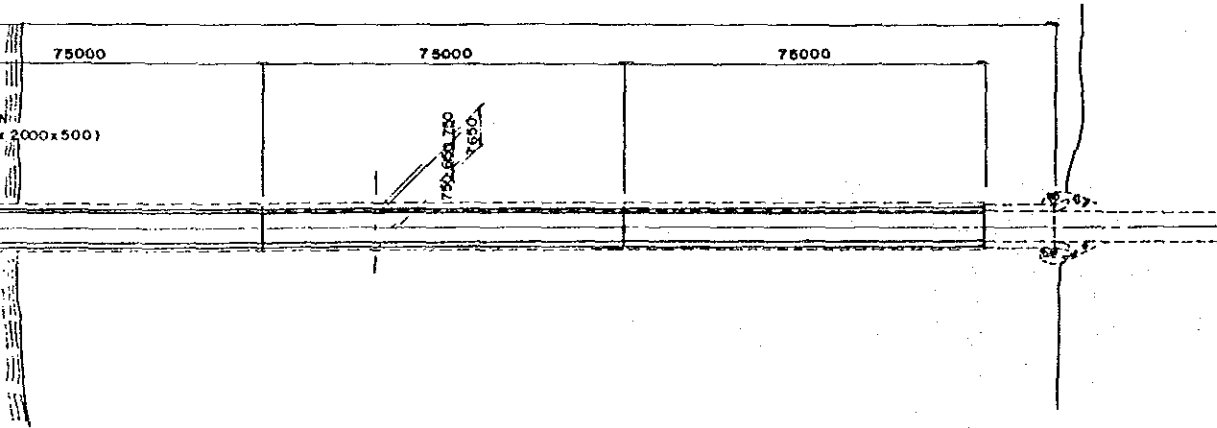
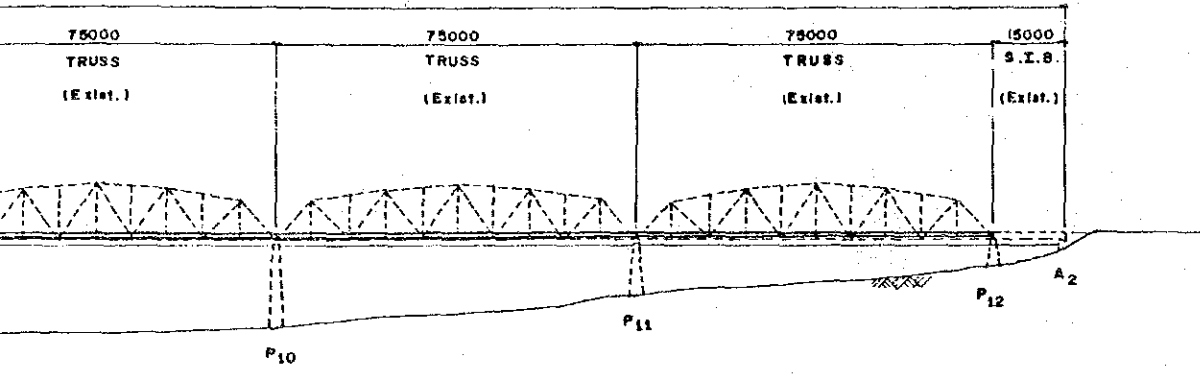
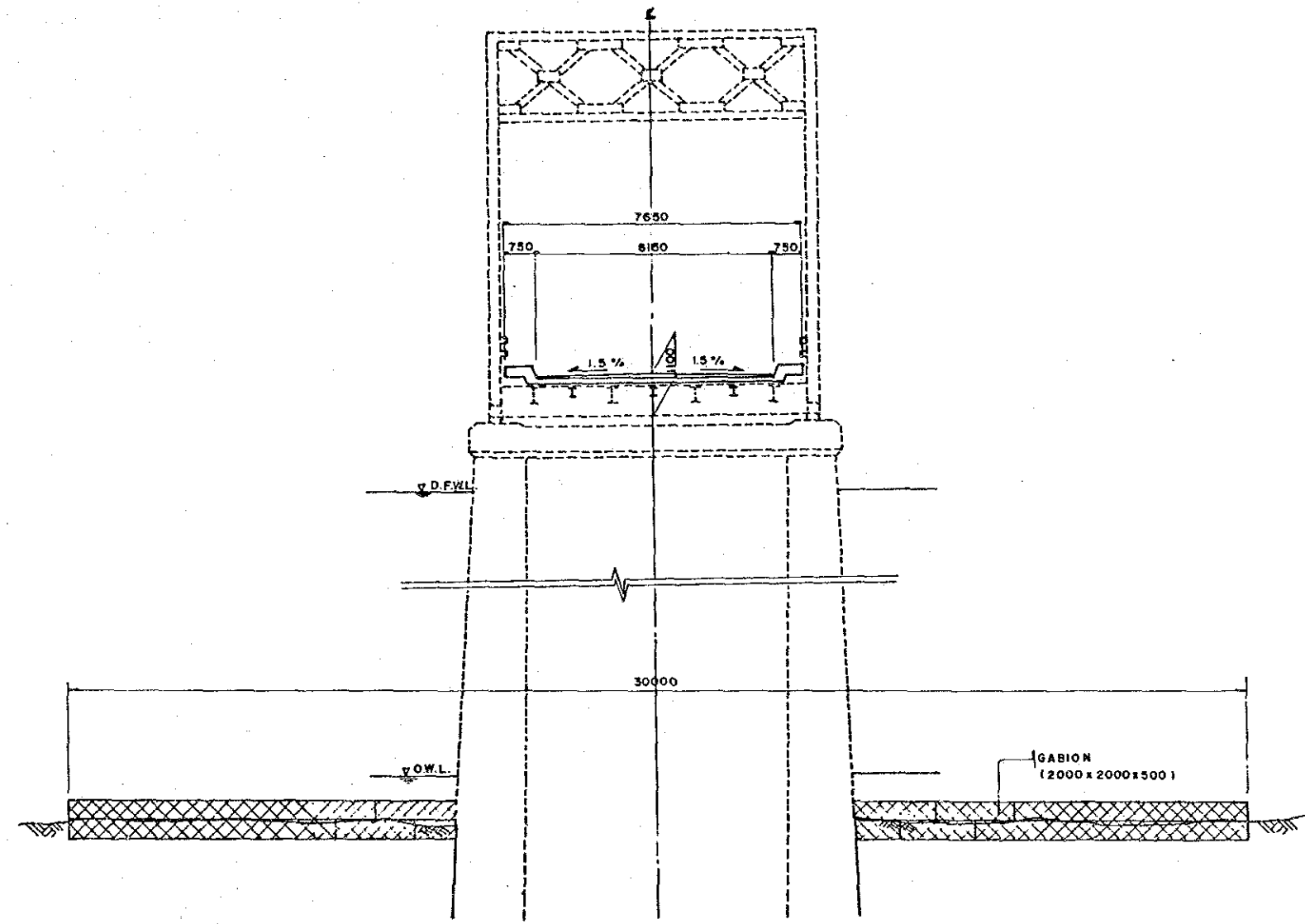
**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT/REINFORCEMENT OF DECK SLAB)  
P<sub>8</sub> PIER





REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	109	NAGULIAN	1:1000 1:100	9/25

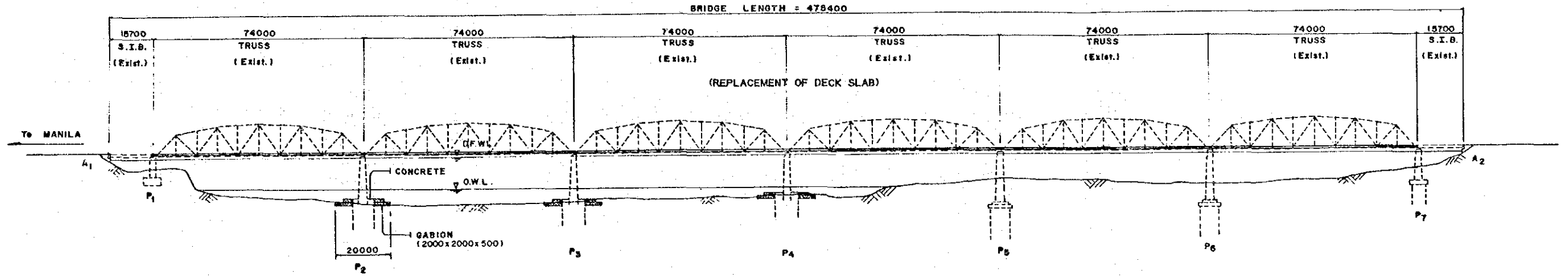
**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT/REINFORCEMENT OF DECK SLAB)  
P<sub>6</sub> PIER



DETOUR BRIDGE : NONE

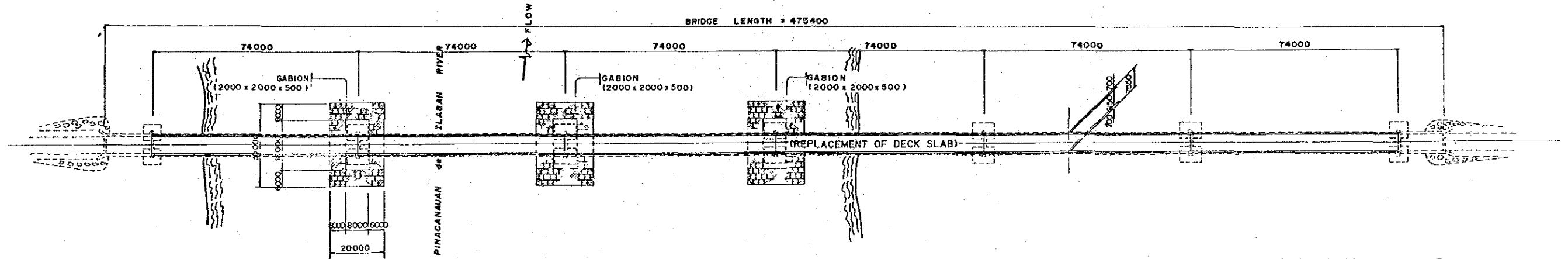
**PROFILE**

SCALE: 1:1000



**PLAN**

SCALE: 1:1000

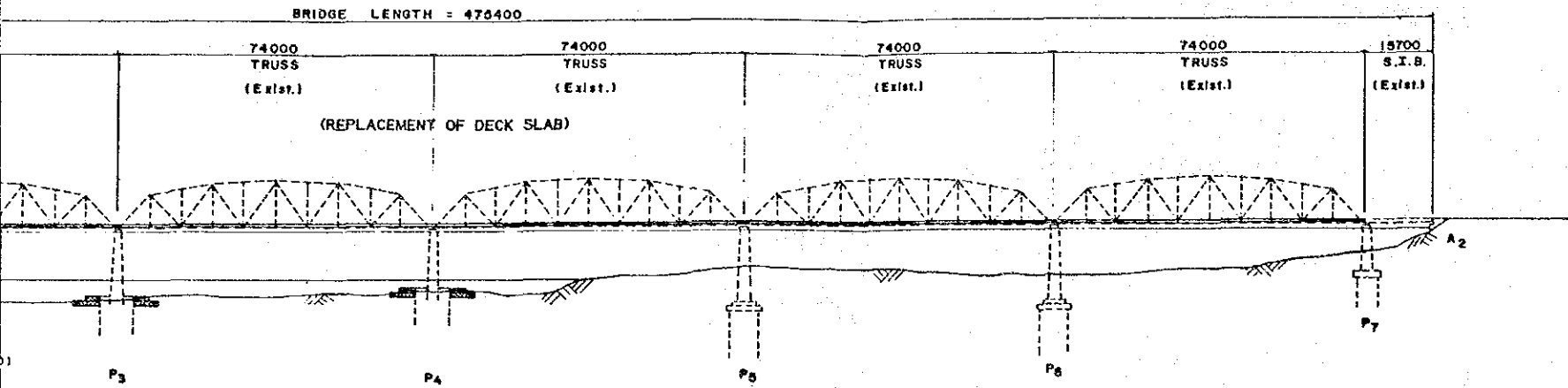


DETOUR BRIDGE: NONE

NOTE  
 D.F.W.F: Degin Flood Water Level  
 O.W.L: Ordinary Water Level

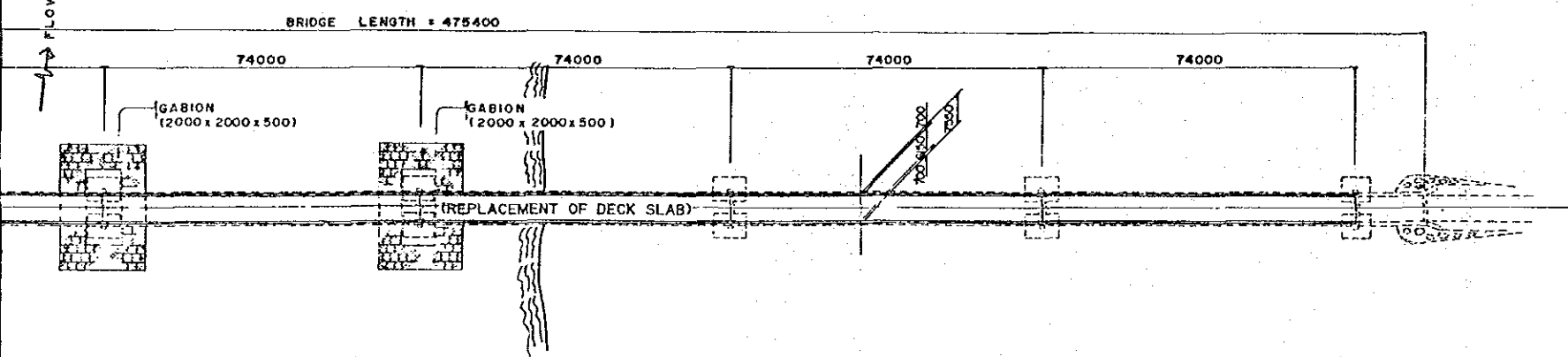
**PROFILE**

SCALE: 1:1000



**PLAN**

SCALE: 1:1000



DETOUR BRIDGE: NONE

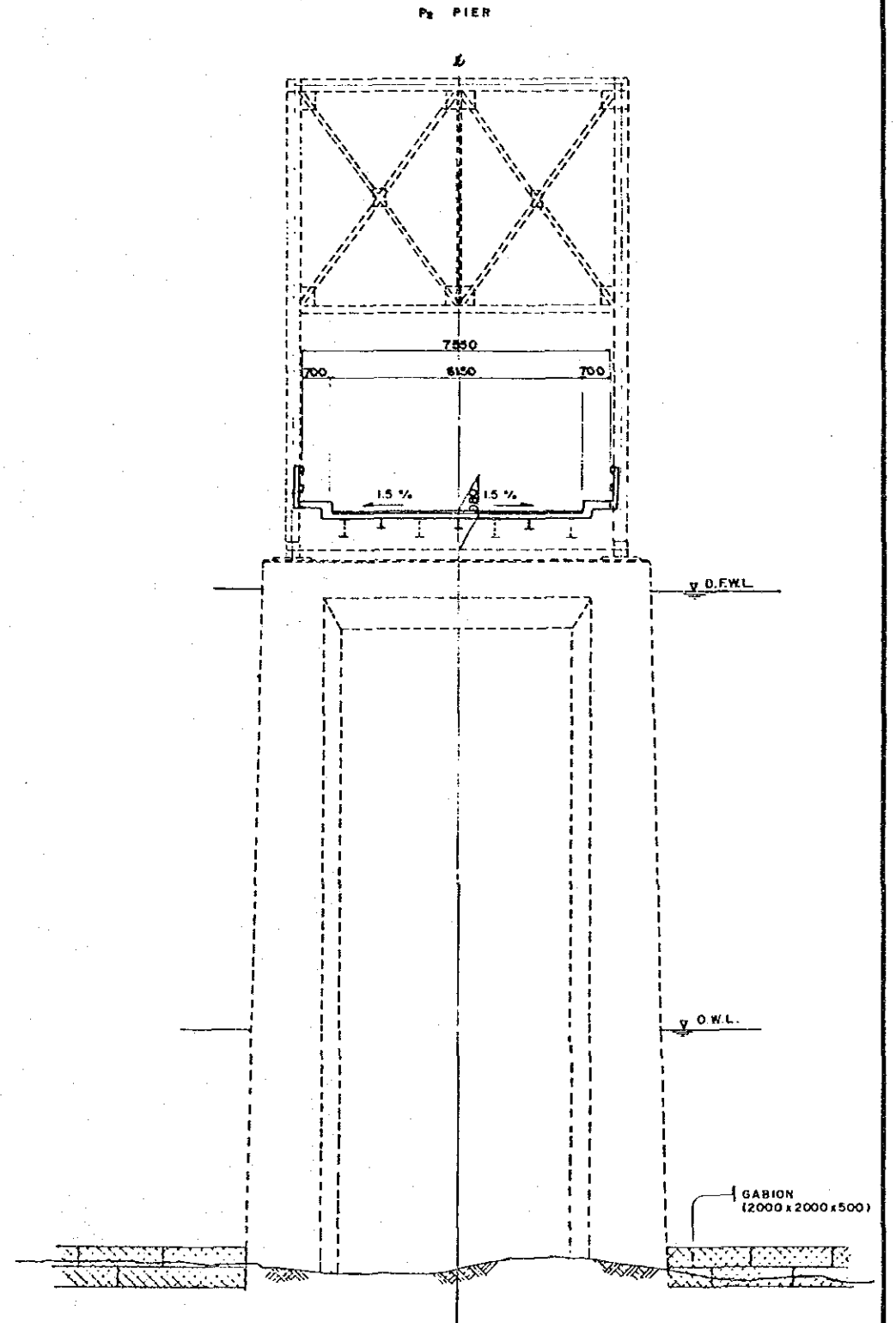
REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS

TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	113	MALALAM	1:1000 1:100	10/25

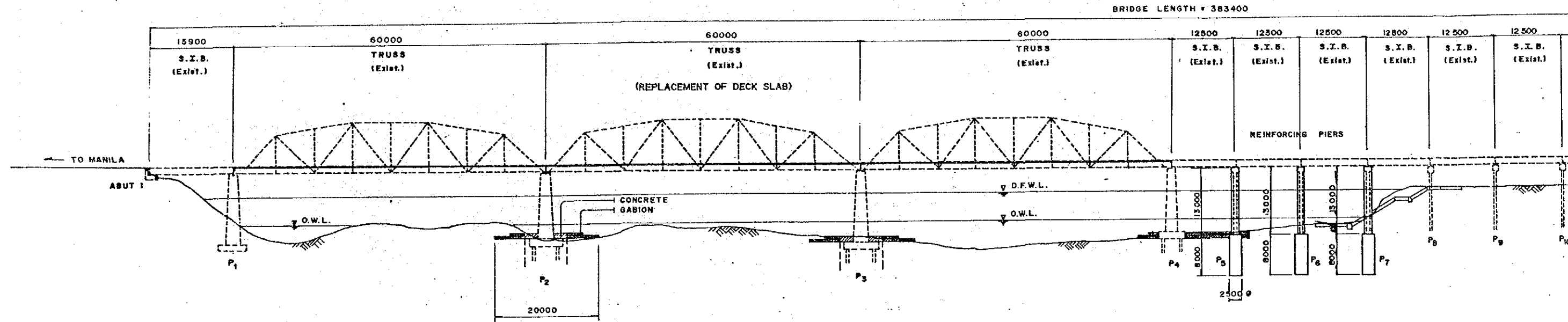
**CROSS SECTION**

SCALE: 1:100

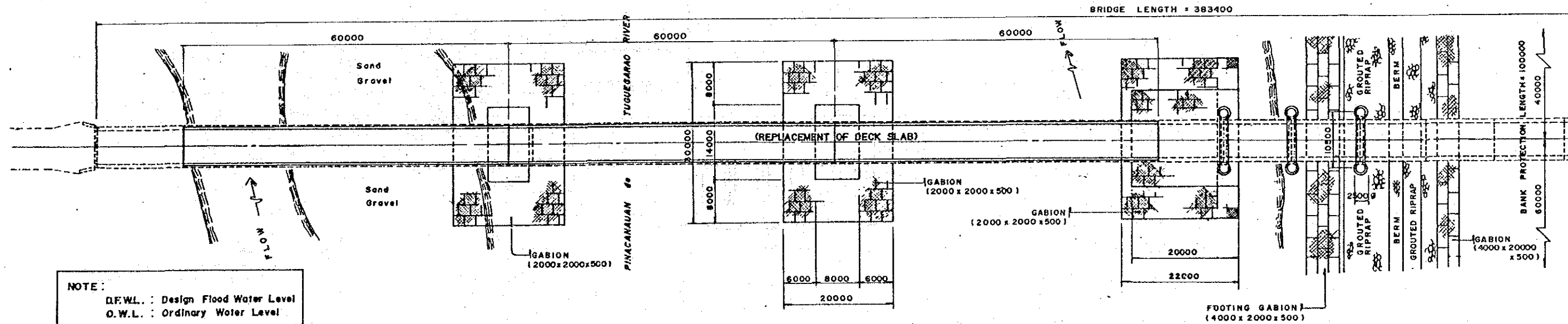
(REPLACEMENT/REINFORCEMENT OF DECK SLAB)



PROFILE  
SCALE: 1:800



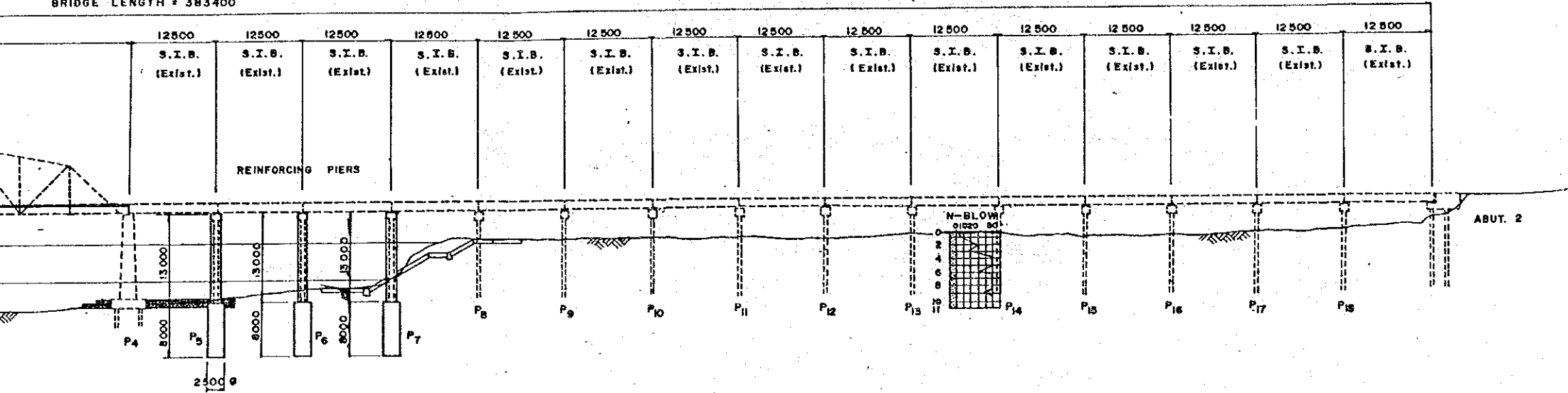
P L A N  
SCALE: 1:800



NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

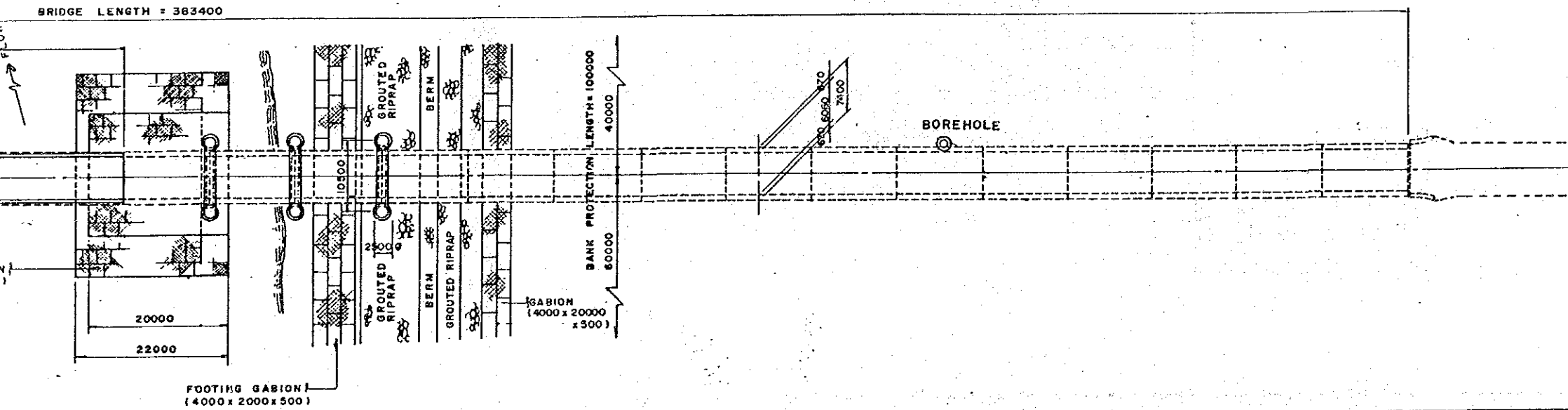
**PROFILE**  
SCALE: 1:500

BRIDGE LENGTH = 383400

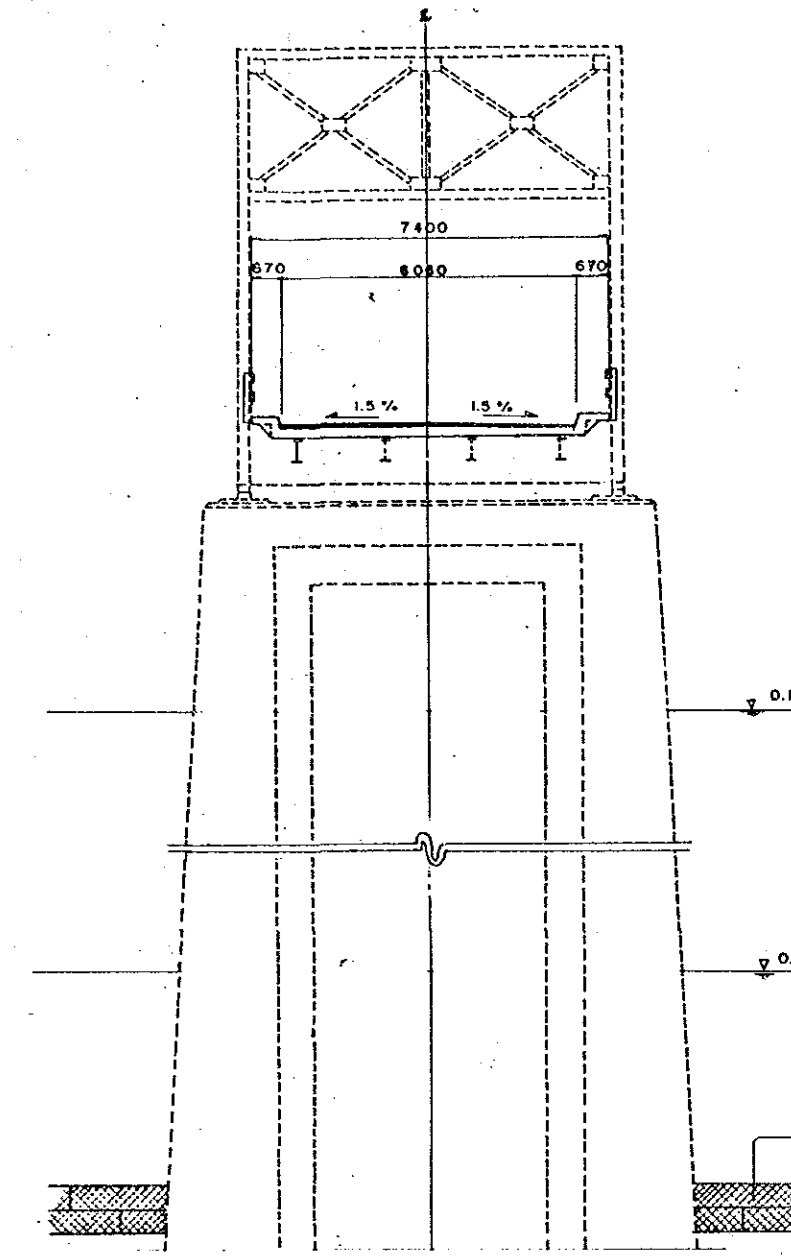


**PLAN**  
SCALE: 1:500

BRIDGE LENGTH = 383400

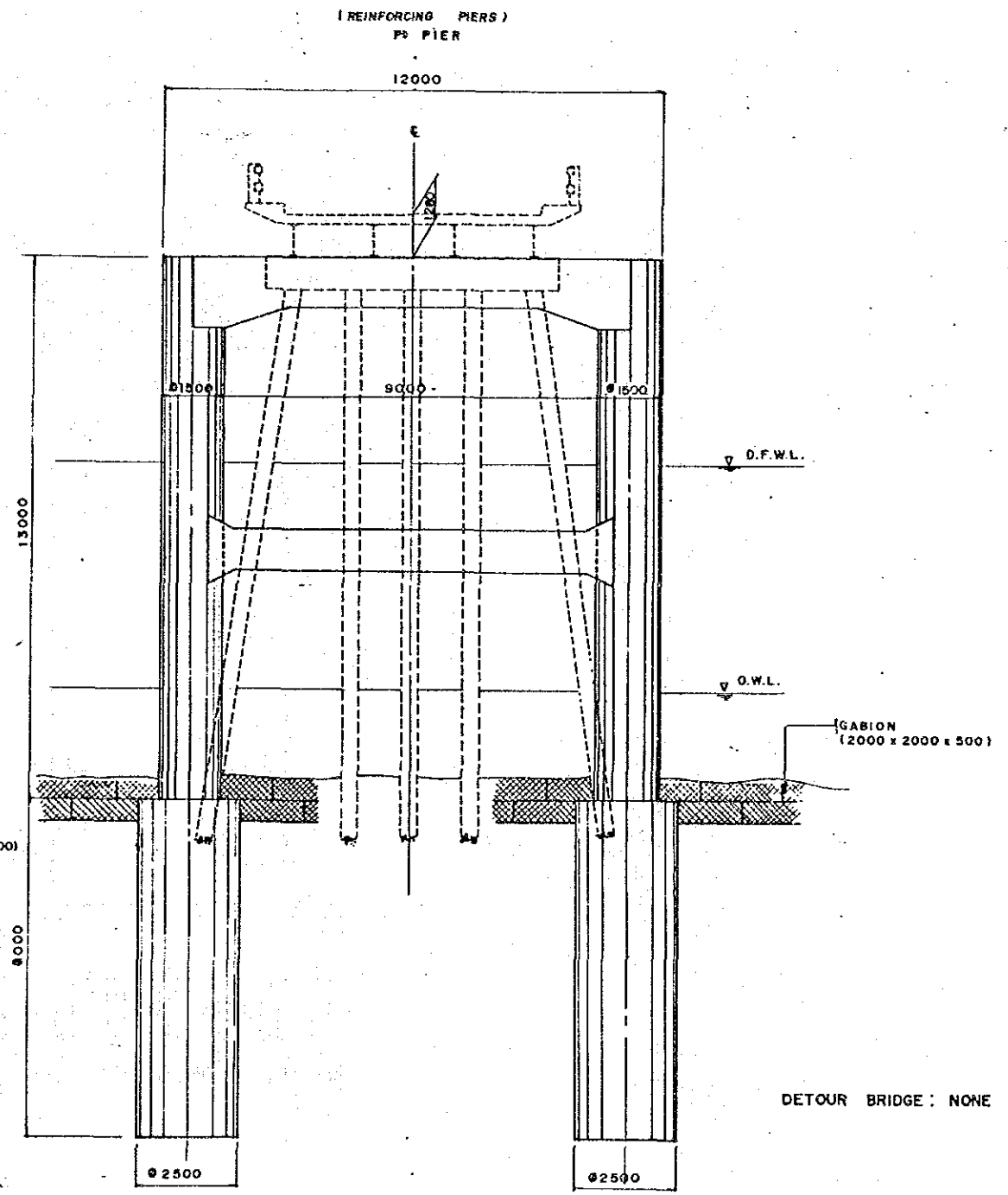
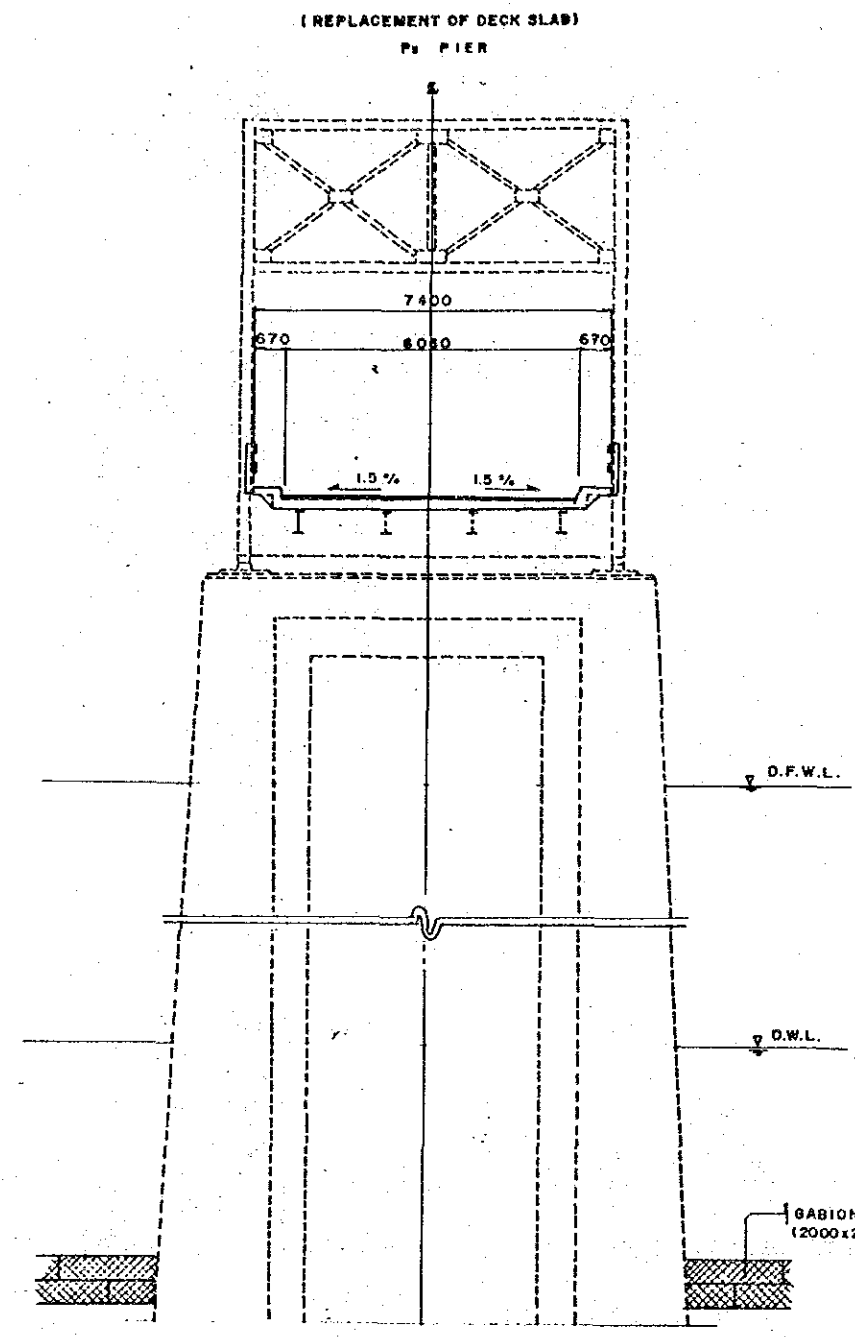
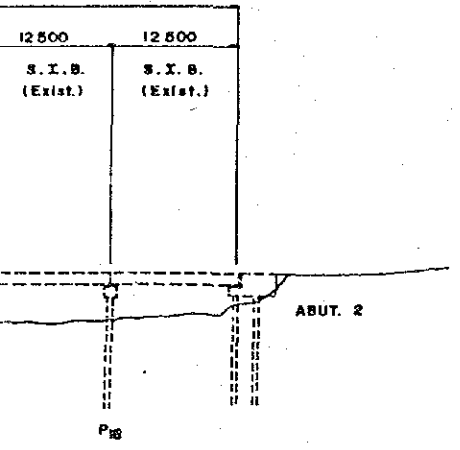


**(REPLACEMENT OF DECK SLAB)**  
P3 PIER



REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	139	PINACANAUAN	1:500 1:100	11/25

CROSS SECTION  
SCALE: 1:100

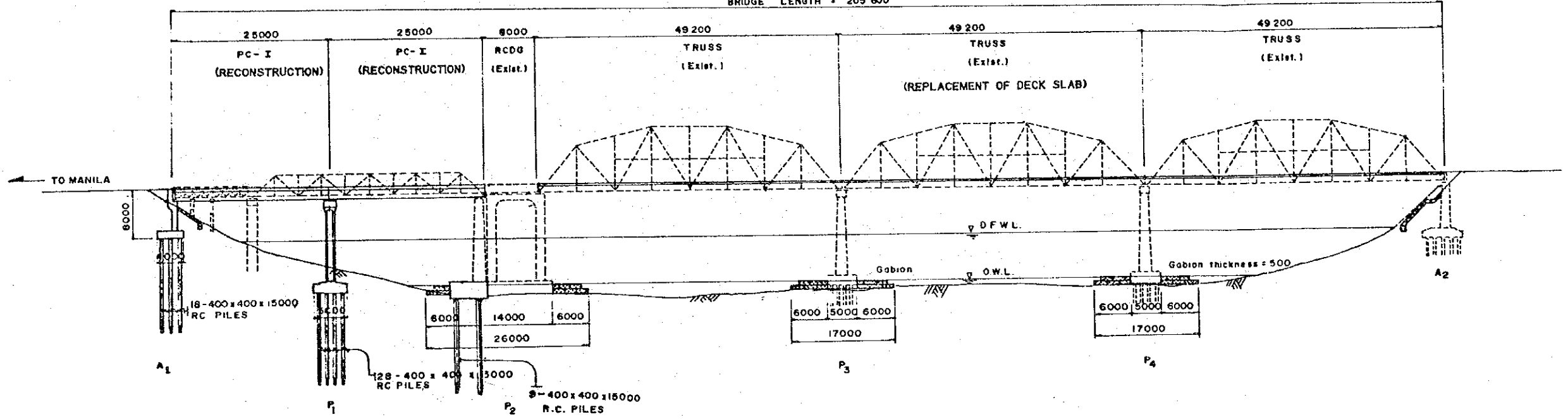


DETOUR BRIDGE: NONE

PROFILE

SCALE: 1/500

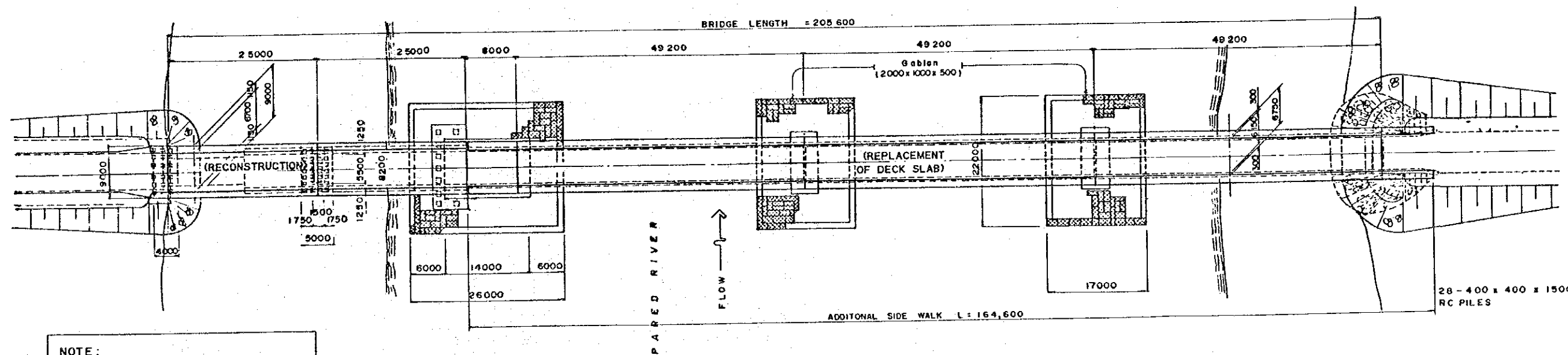
BRIDGE LENGTH = 205 600



PLAN

SCALE: 1/500

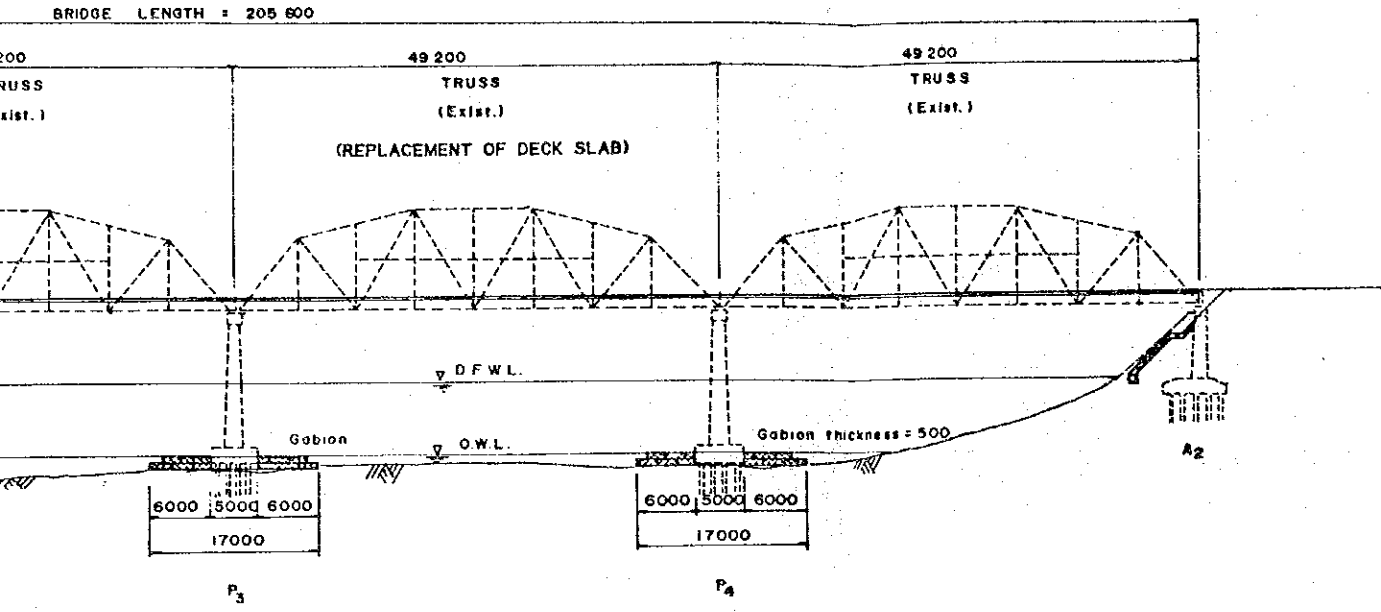
BRIDGE LENGTH = 205 600



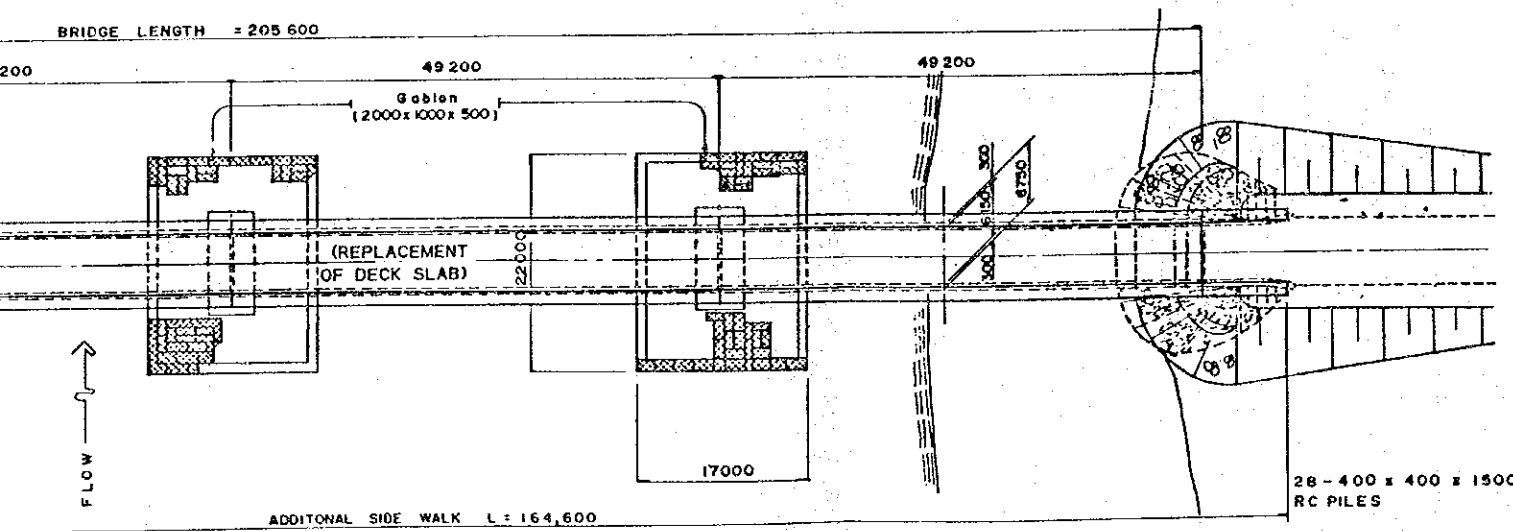
NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO	BRIDGE NAME	SCALE	DRAWING NO
GENERAL VIEW	154	PARED	1:500 1:100 1:200	12/25

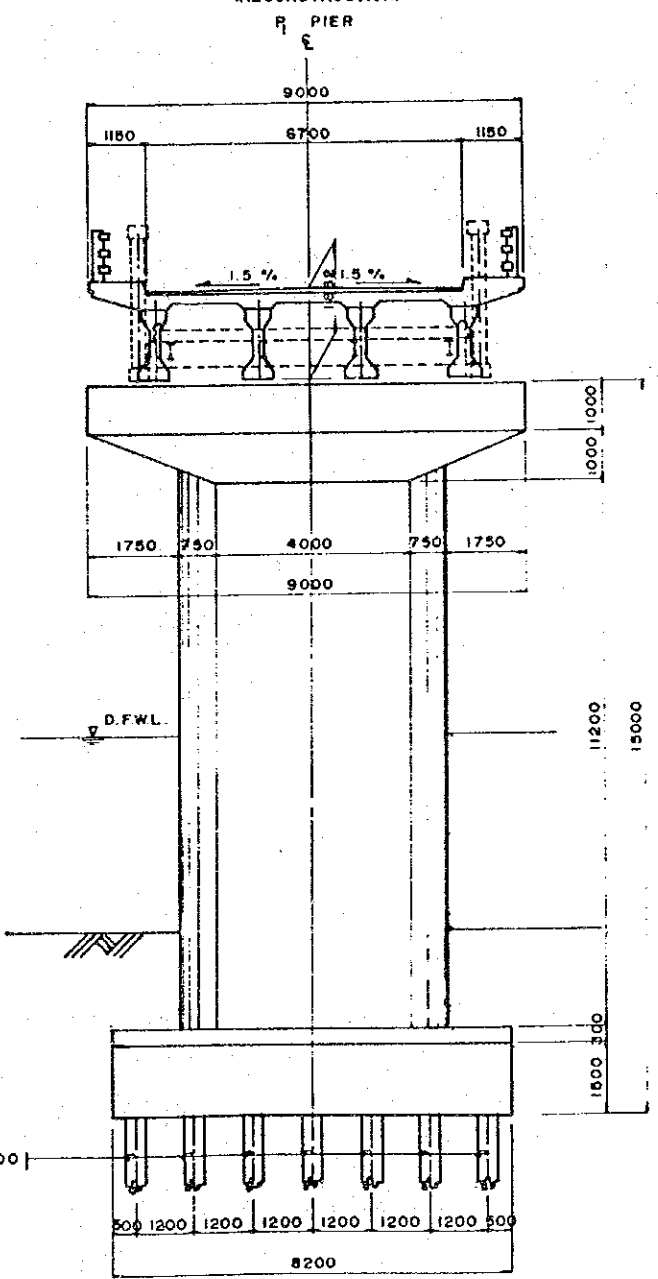
**PROFILE**  
SCALE: 1:500



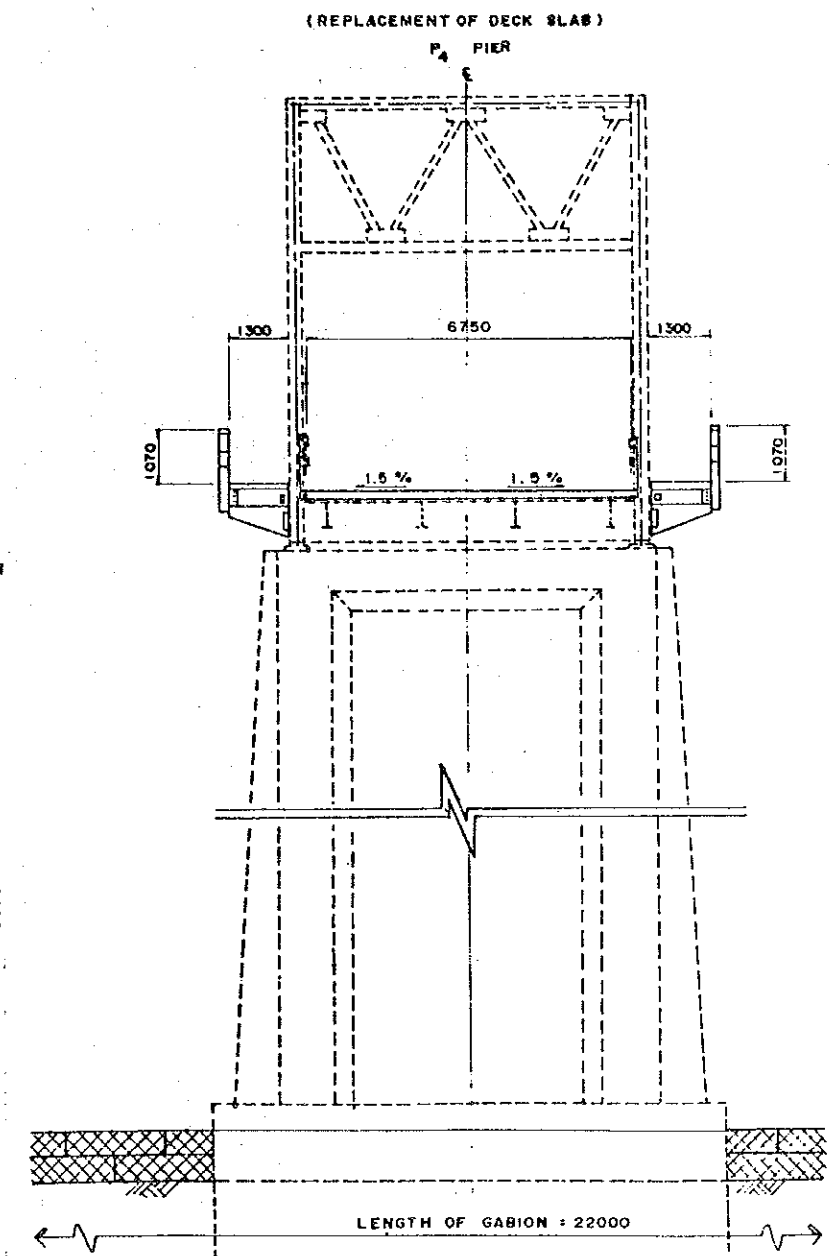
**PLAN**  
SCALE: 1:500



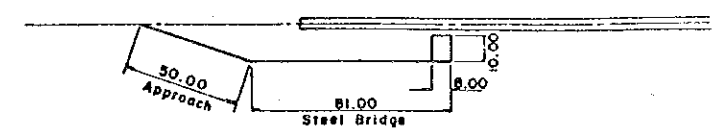
**CROSS SECTION (RECONSTRUCTION)**  
SCALE: 1:100



**CROSS SECTION**  
SCALE: 1:100



**DETOUR BRIDGE**  
SCALE: 1:200

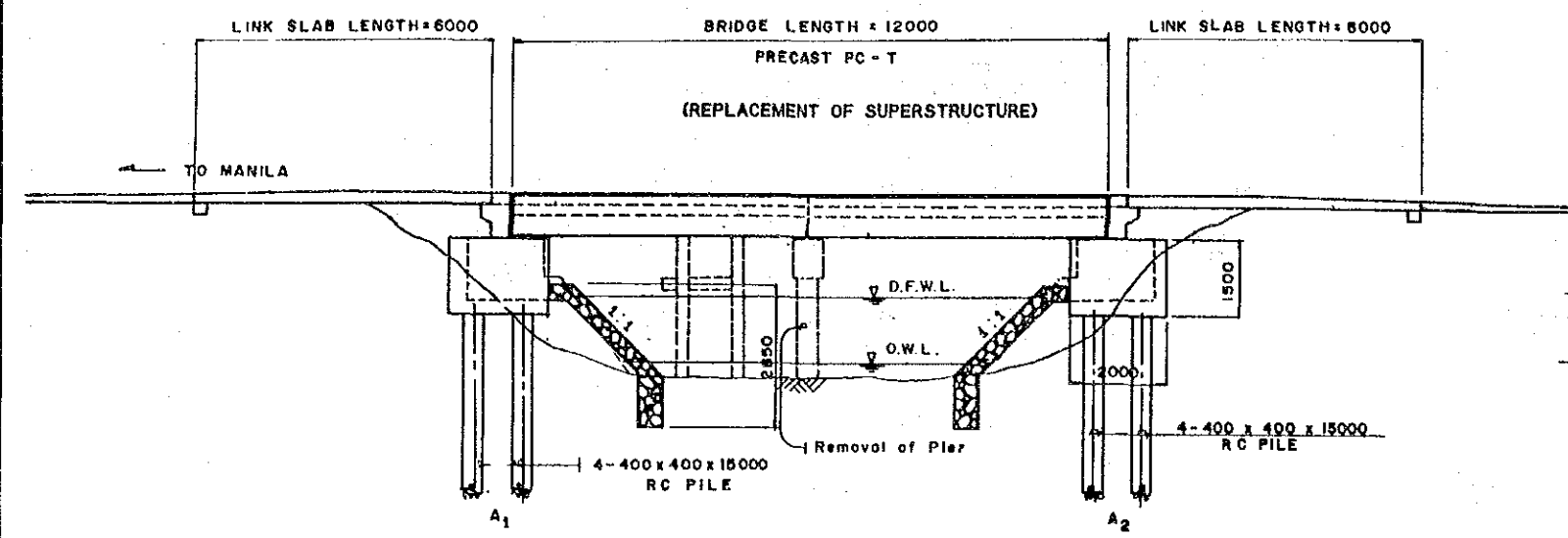


NOTE:  
# One Lane Detour

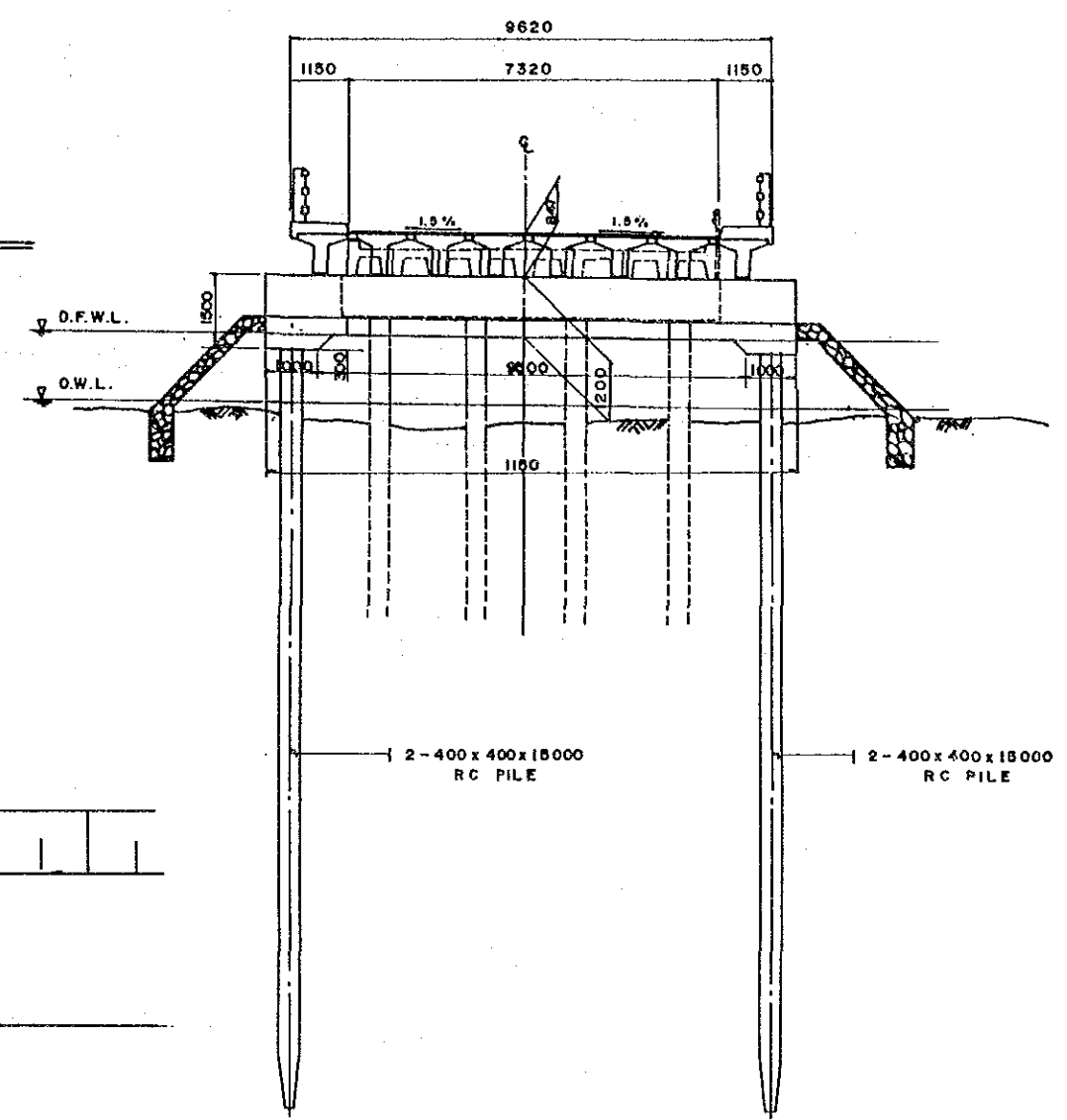


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIER	19	SUJE	1:100 1:20	13/25

**PROFILE**  
SCALE: 1:100

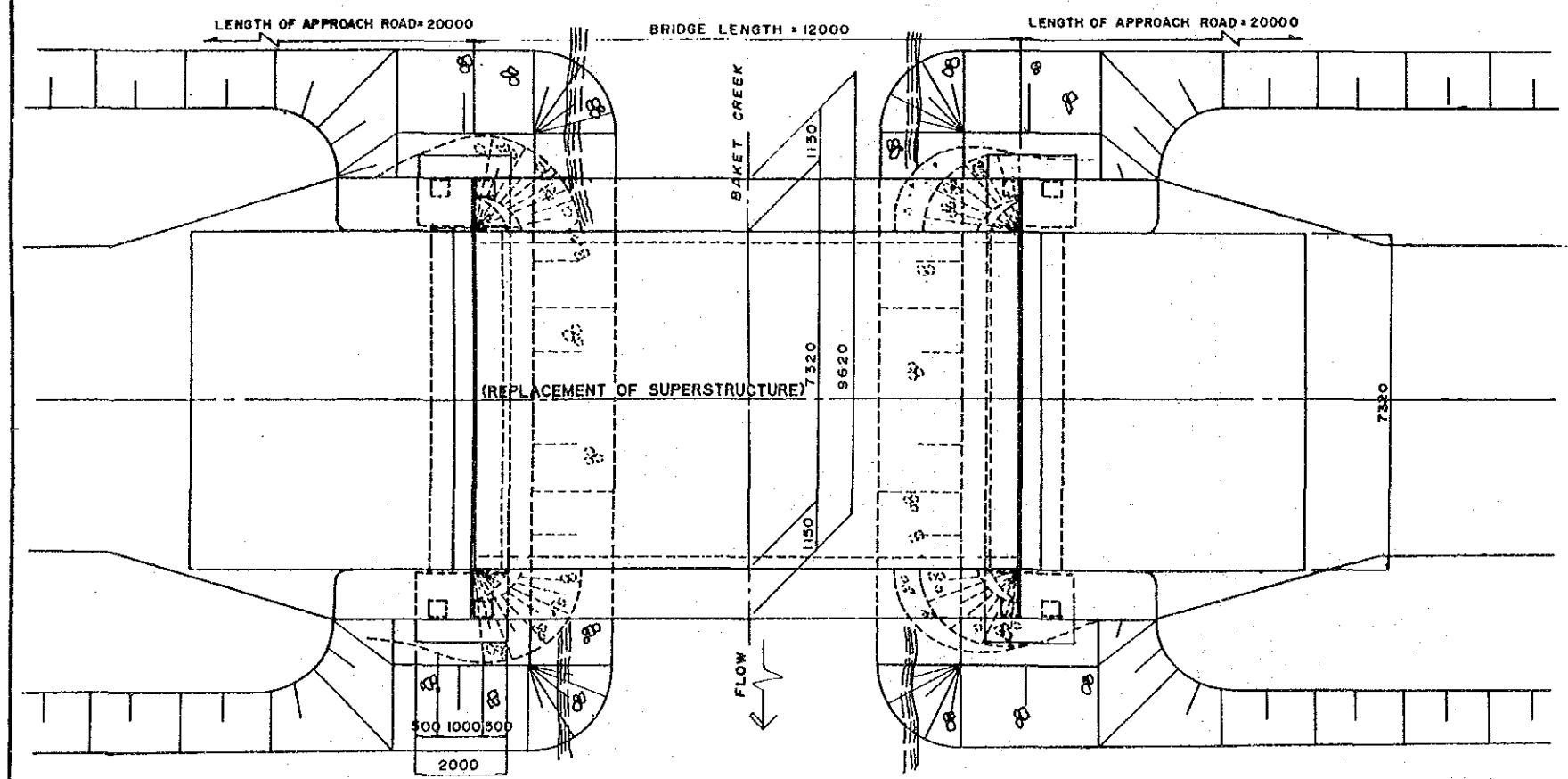


**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT OF SUPERSTRUCTURE)  
At ABUTMENT

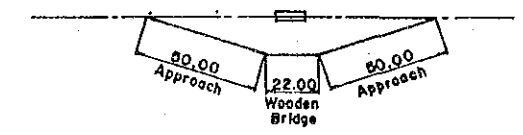


**NOTE:**  
D.F.W.L.: Design Flood Water Level  
O.W.L.: Ordinary Water Level

**P L A N**  
SCALE: 1:100



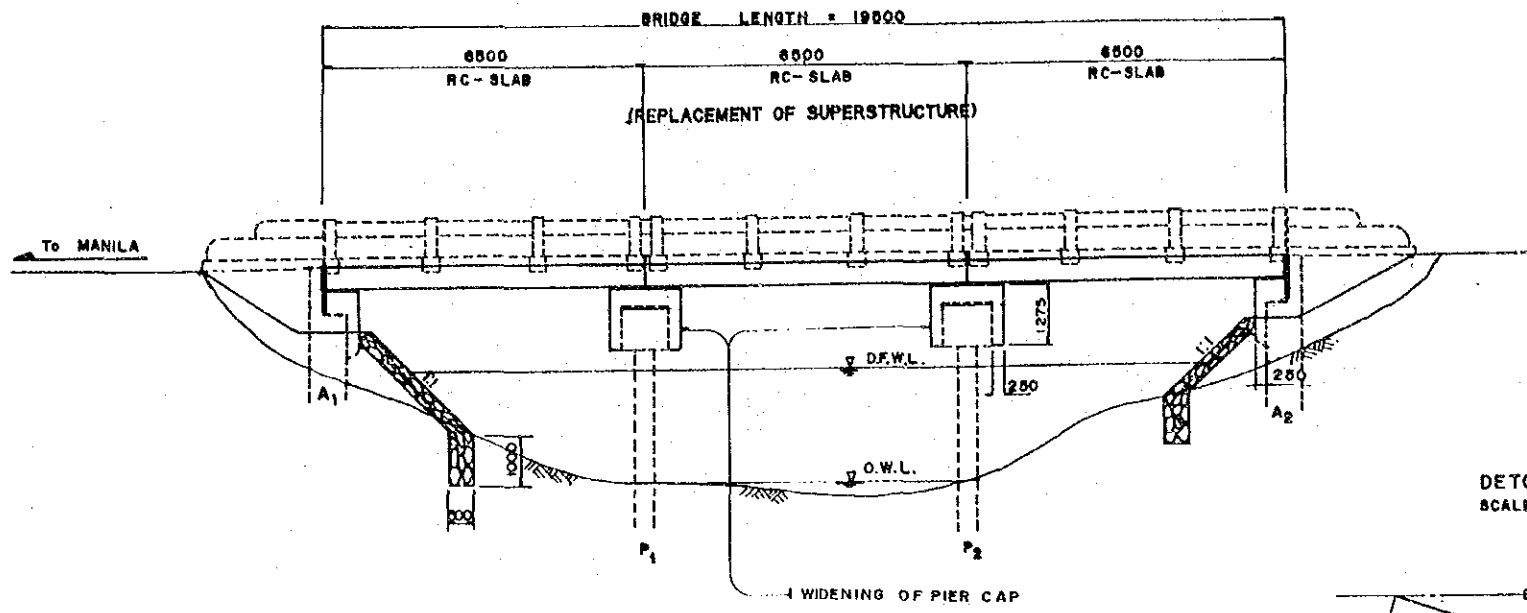
**DETOUR BRIDGE**  
SCALE: 1:20



**NOTE:**  
\* One Lane Detour

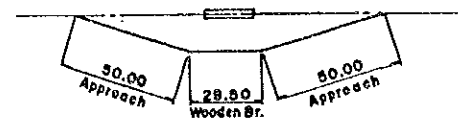
**PROFILE**  
SCALE: 1:100

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	78	SAN GABRIEL	1:100 1:50 1:20	14/25



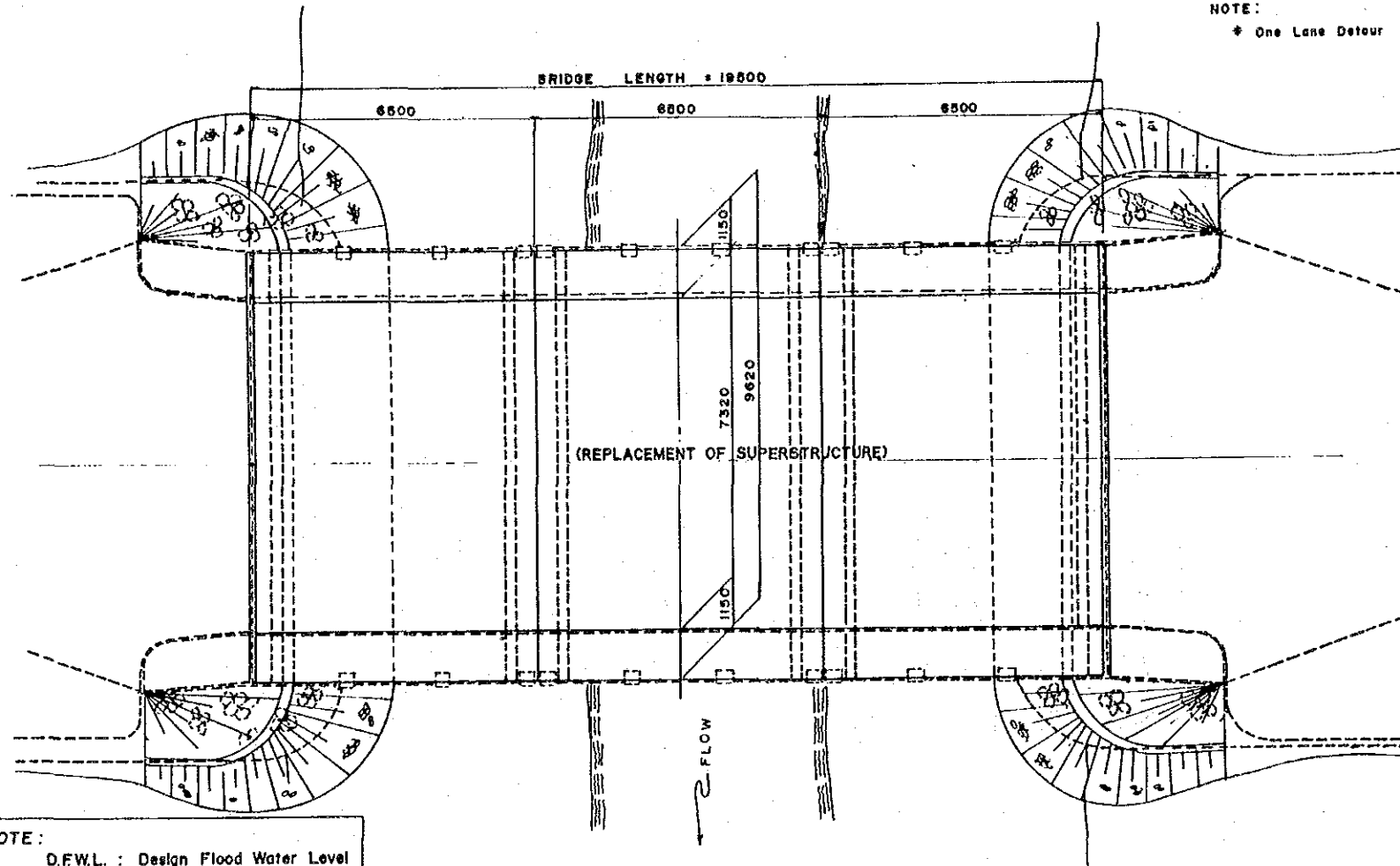
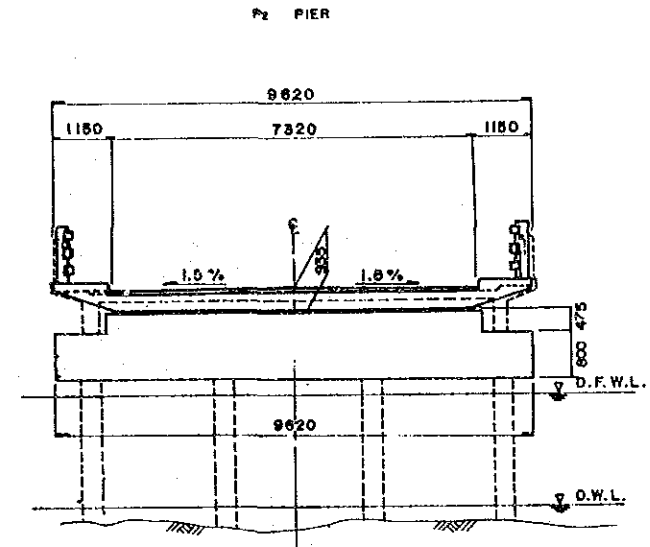
**PLAN**  
SCALE: 1:100

**DETOUR BRIDGE**  
SCALE: 1:20

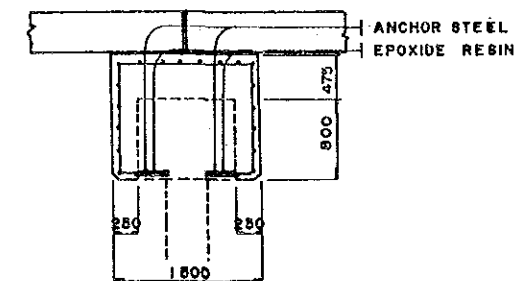


NOTE:  
\* One Lane Detour

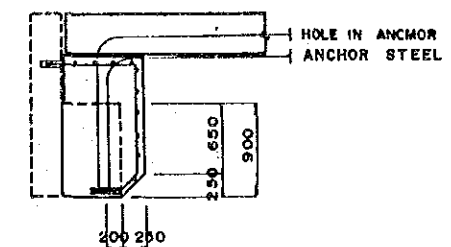
**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT OF SUPERSTRUCTURE)



**WIDENING OF PIER COPING**  
SCALE: 1:50



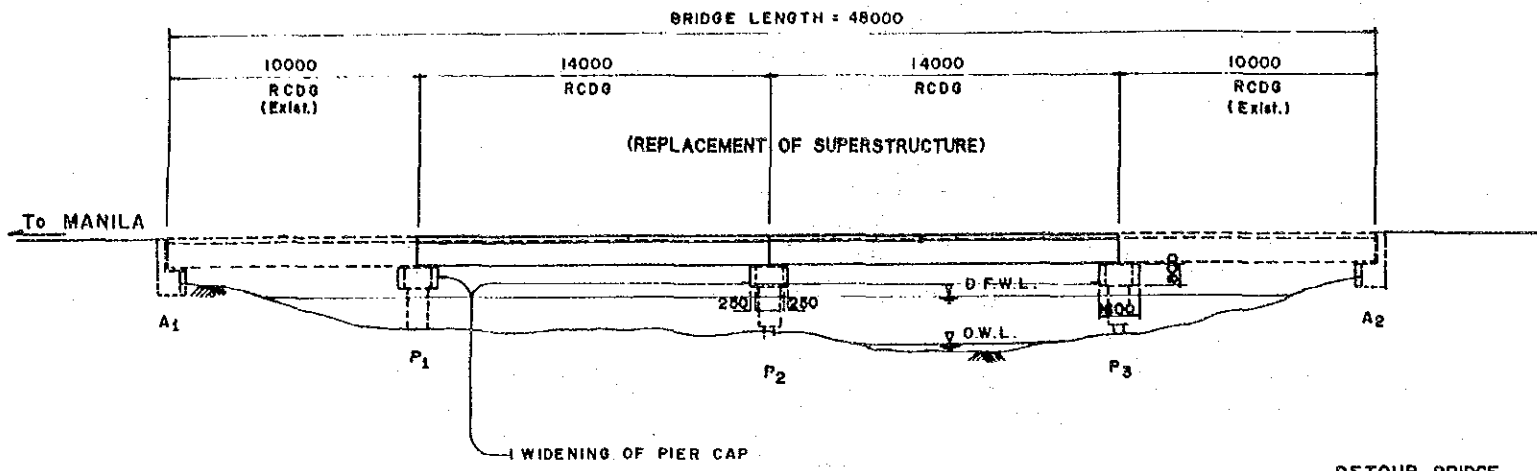
**WIDENING OF ABUTMENT**  
SCALE: 1:50



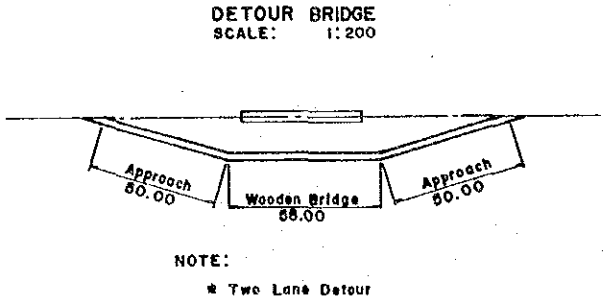
NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	188	BINAHAAN	200 100 50	15 25

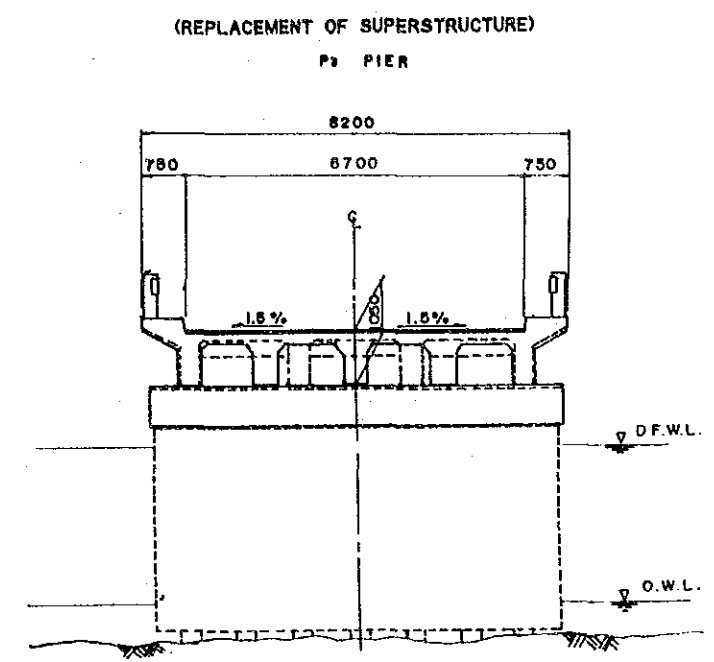
**PROFILE**  
SCALE: 1:200



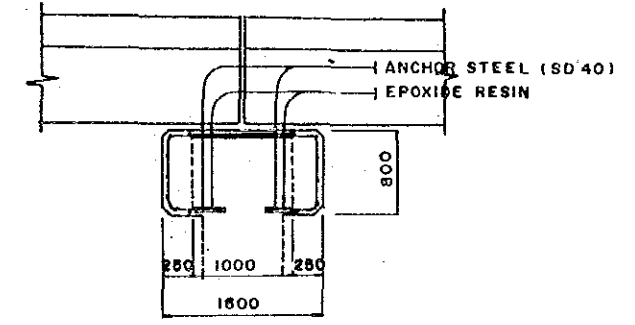
**PLAN**  
SCALE: 1:200



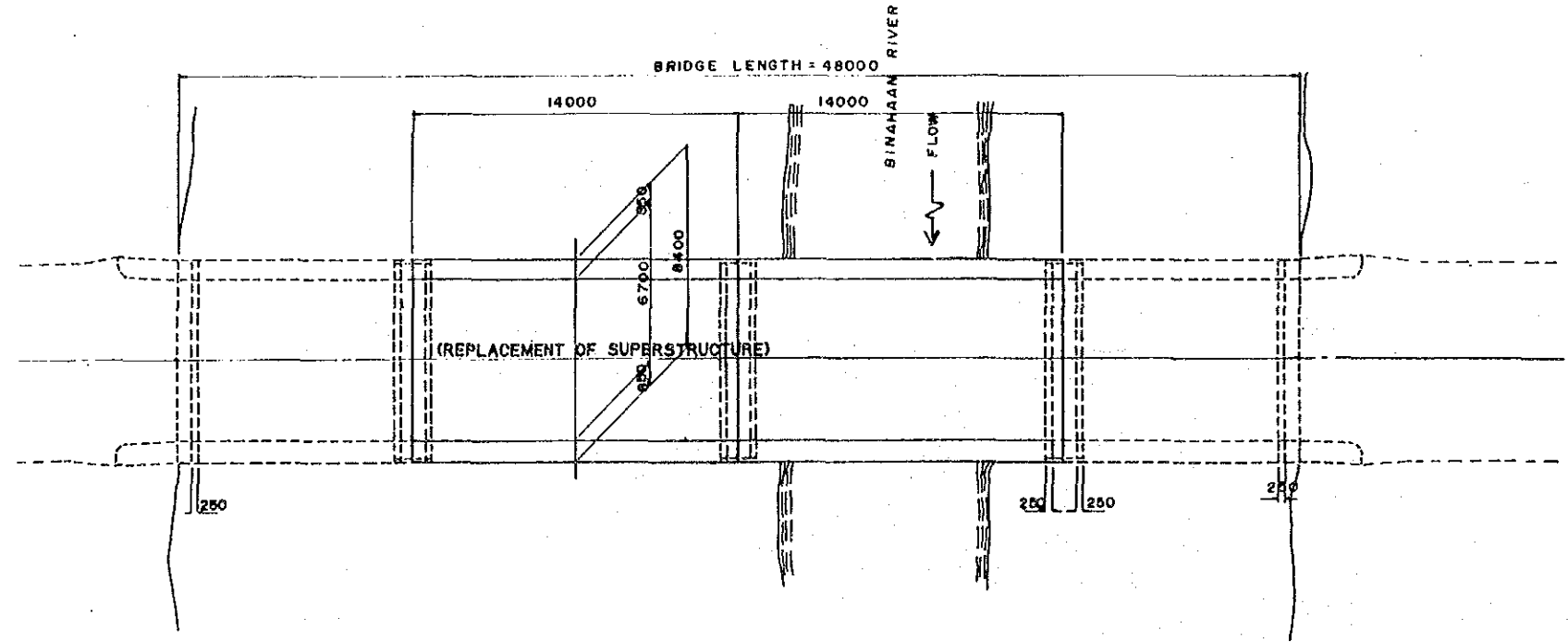
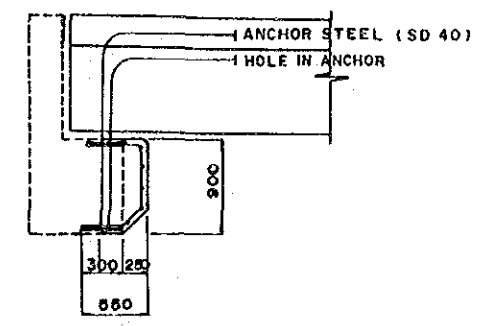
**CROSS SECTION**  
SCALE: 1:100



**WIDENING OF PIER COPING**  
SCALE: 1:50



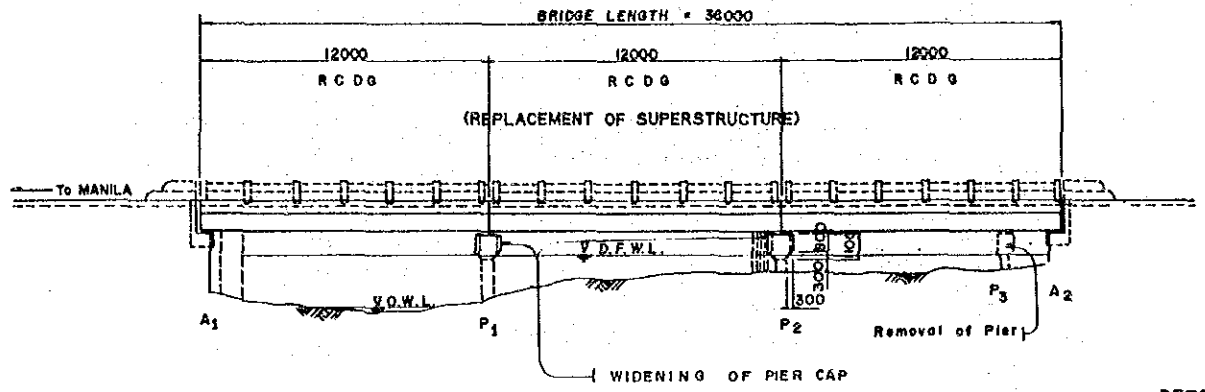
**WIDENING OF ABUTMENT**  
SCALE: 1:50



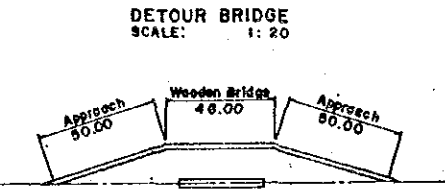
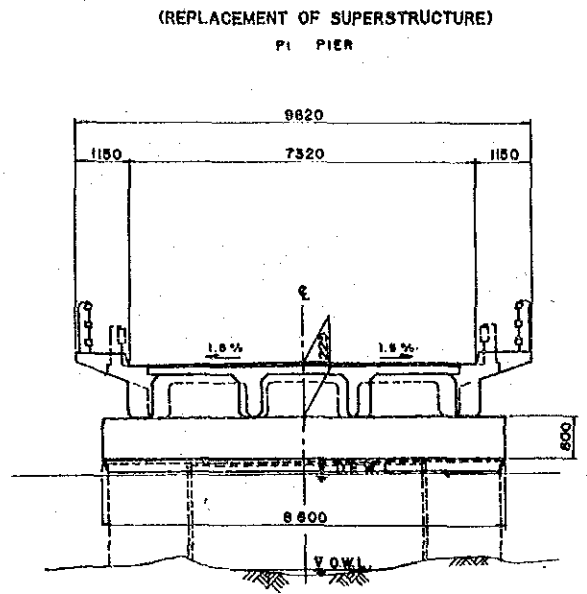
NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	208	STO. CRISTO	200 100 50 20	16/25

**PROFILE**  
SCALE: 1:200

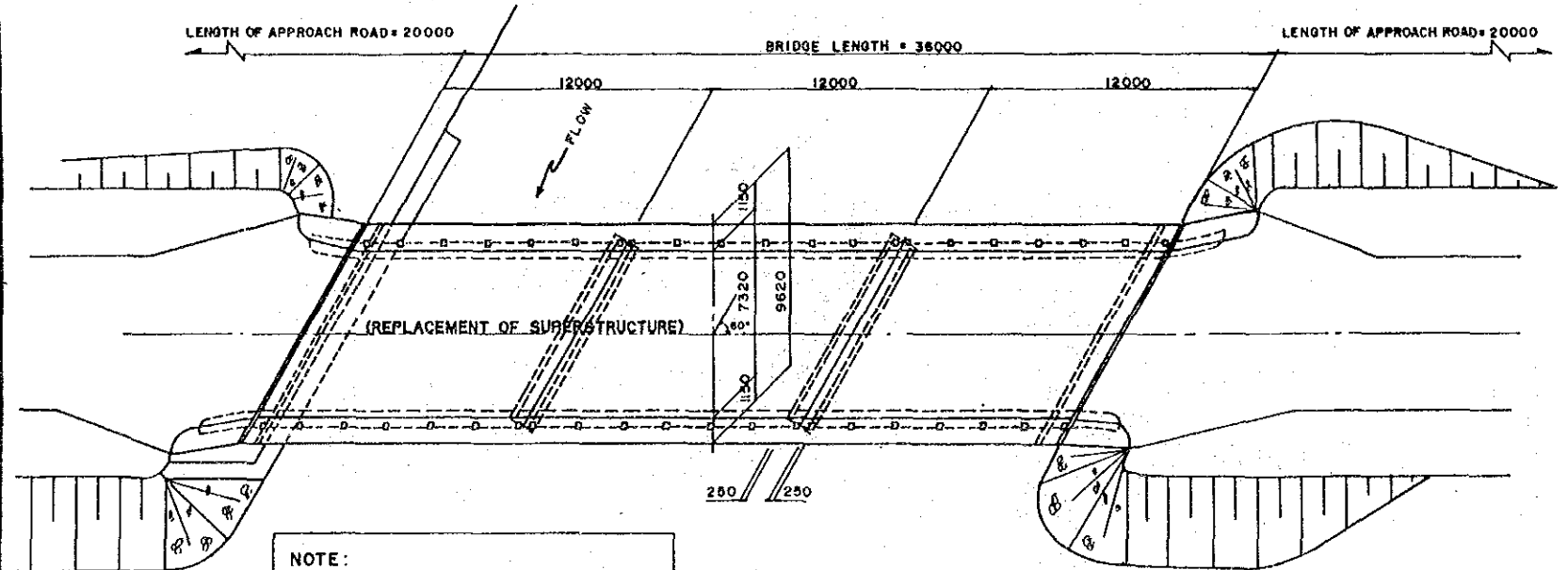


**CROSS SECTION**  
SCALE: 1:100



**DETOUR BRIDGE**  
SCALE: 1:20

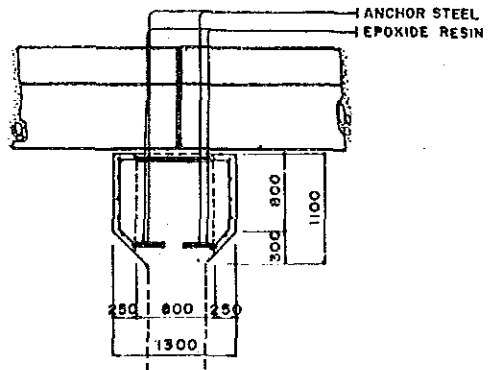
**P L A N**  
SCALE: 1:200



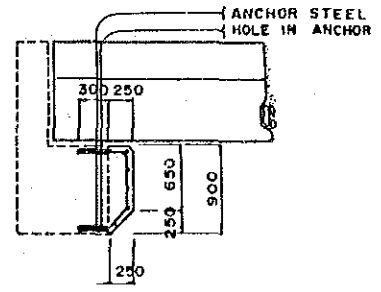
NOTE:  
• Two Lane Detour

NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

**WIDENING OF PIER COPING**  
SCALE: 1:50

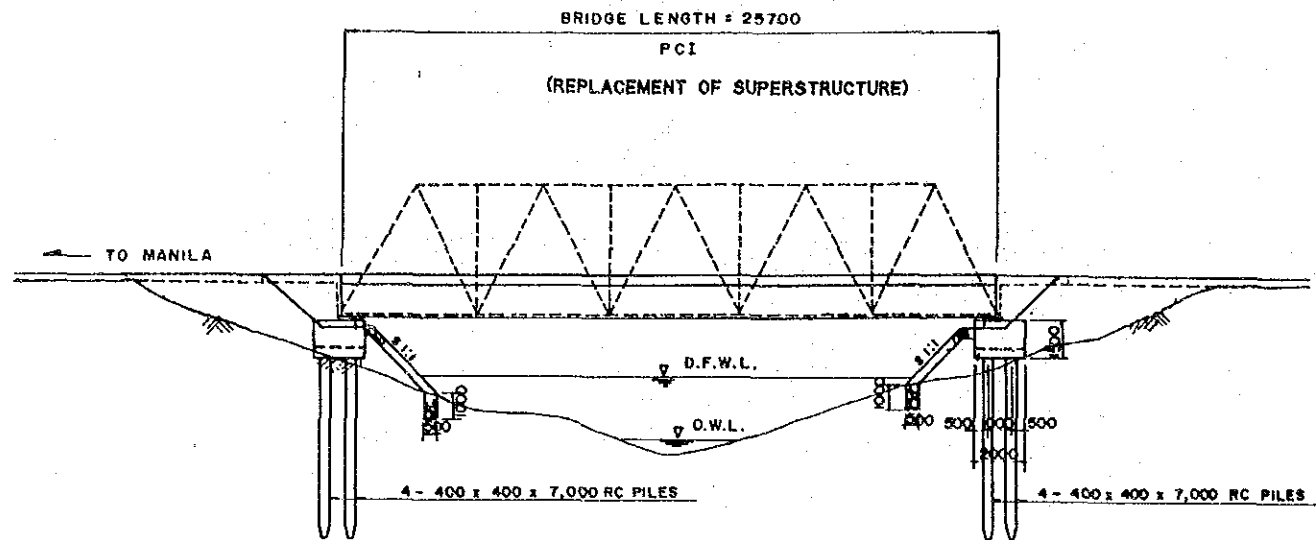


**WIDENING OF ABUTMENT**  
SCALE: 1:50

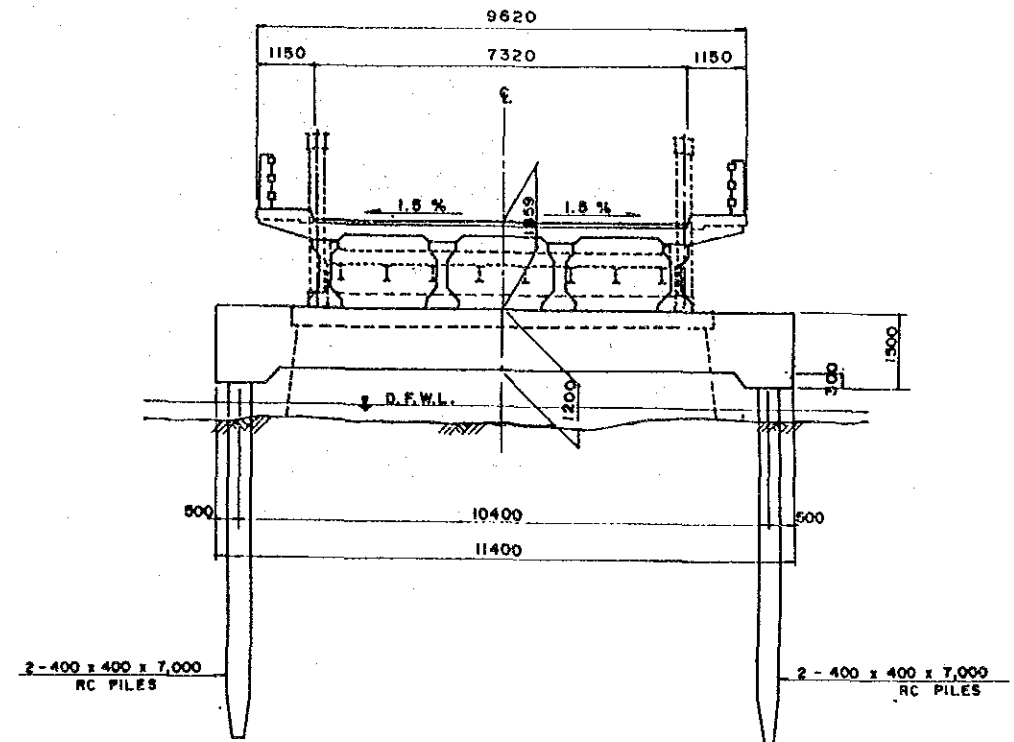


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	220	MAGAPON	1 : 200 1 : 100	17 / 25

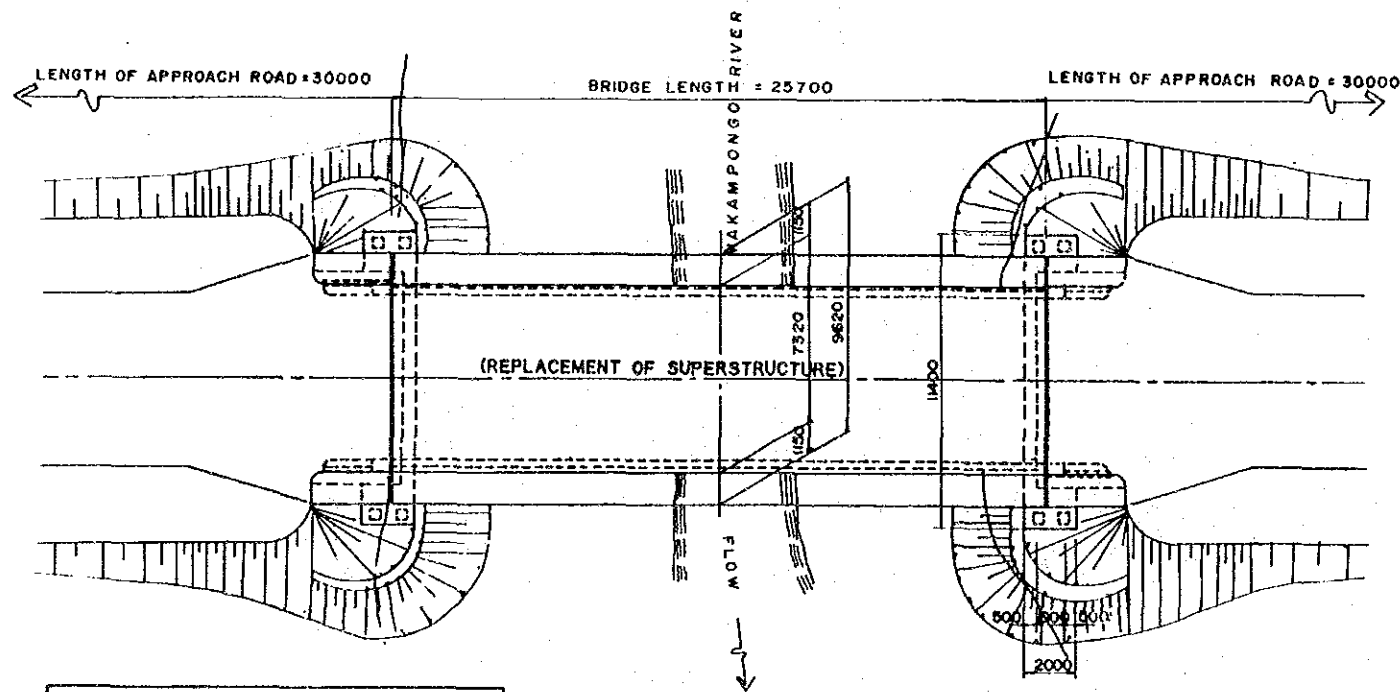
**PROFILE**  
SCALE: 1:200



**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT OF SUPERSTRUCTURE)  
A2 ABUTMENT

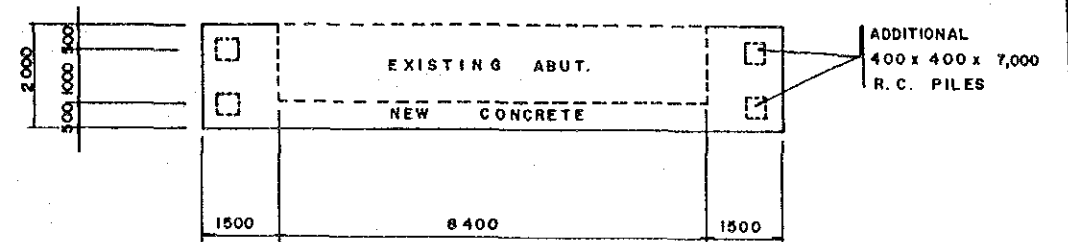


**PLAN**  
SCALE: 1:200



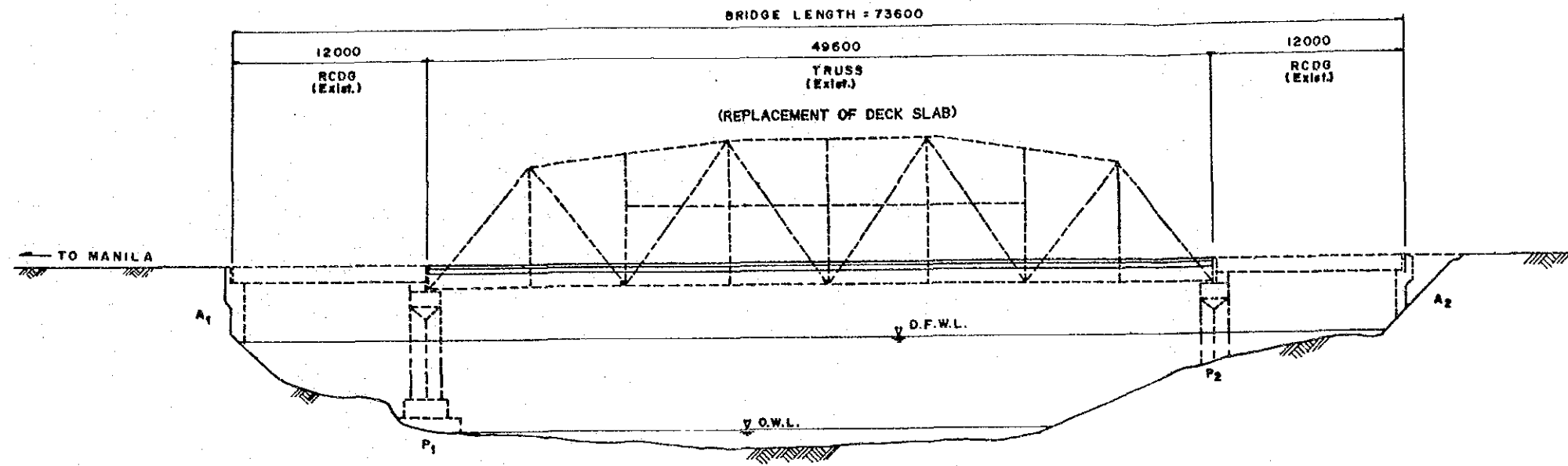
**NOTE:**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

**REINFORCEMENT OF ABUTMENT**  
**PLAN**  
SCALE: 1:100

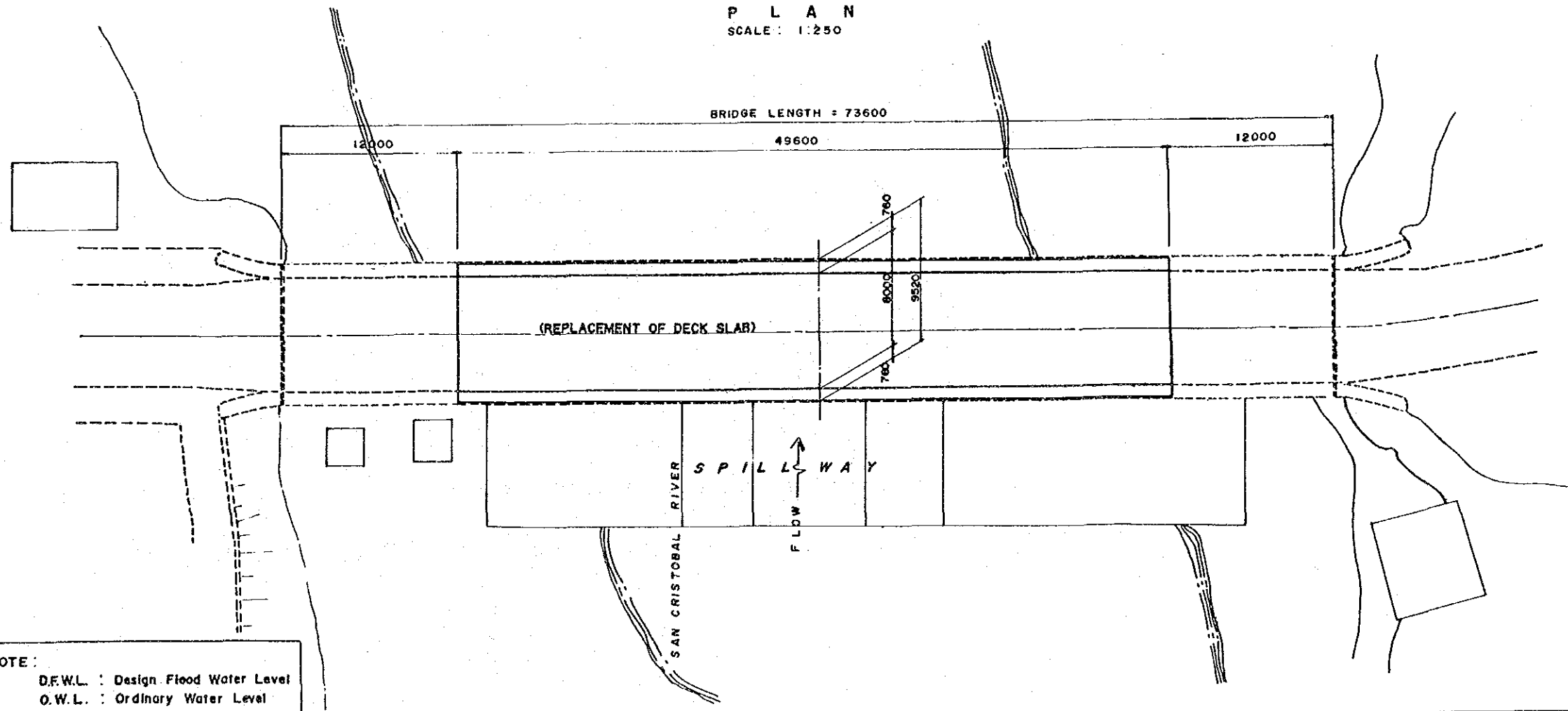


DETOUR BRIDGE : NONE

**PROFILE**  
SCALE: 1:250

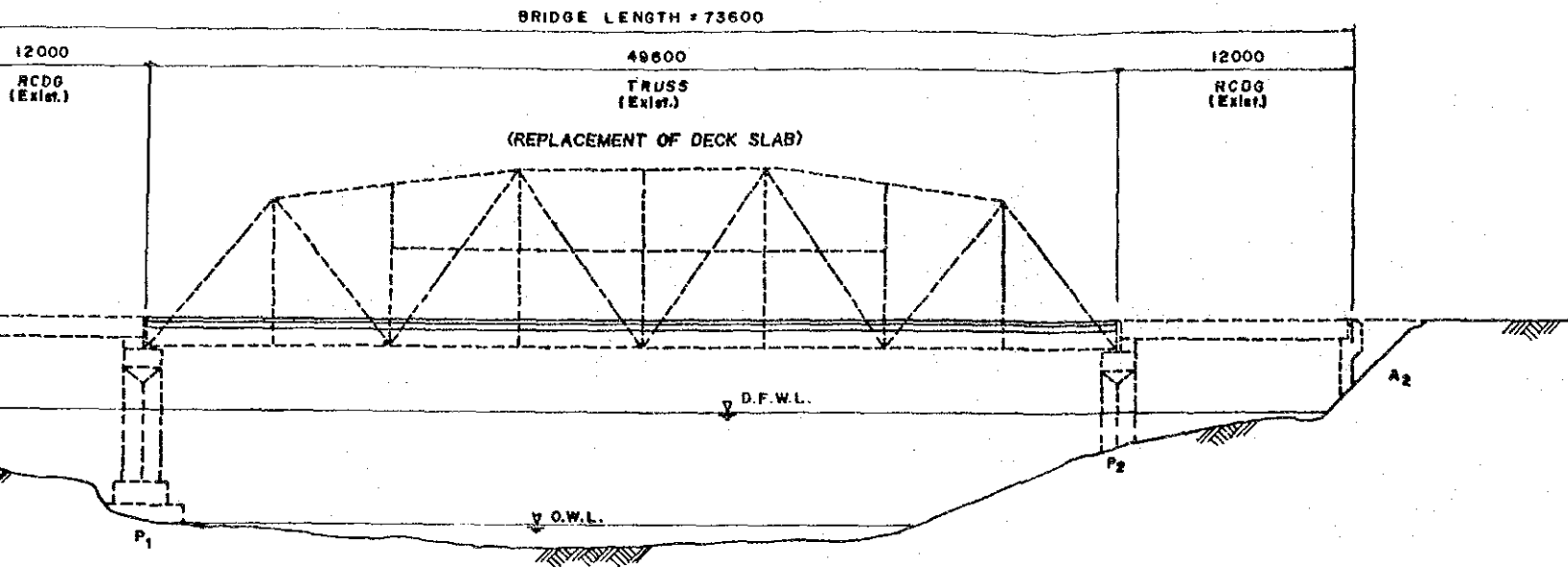


**P L A N**  
SCALE: 1:250

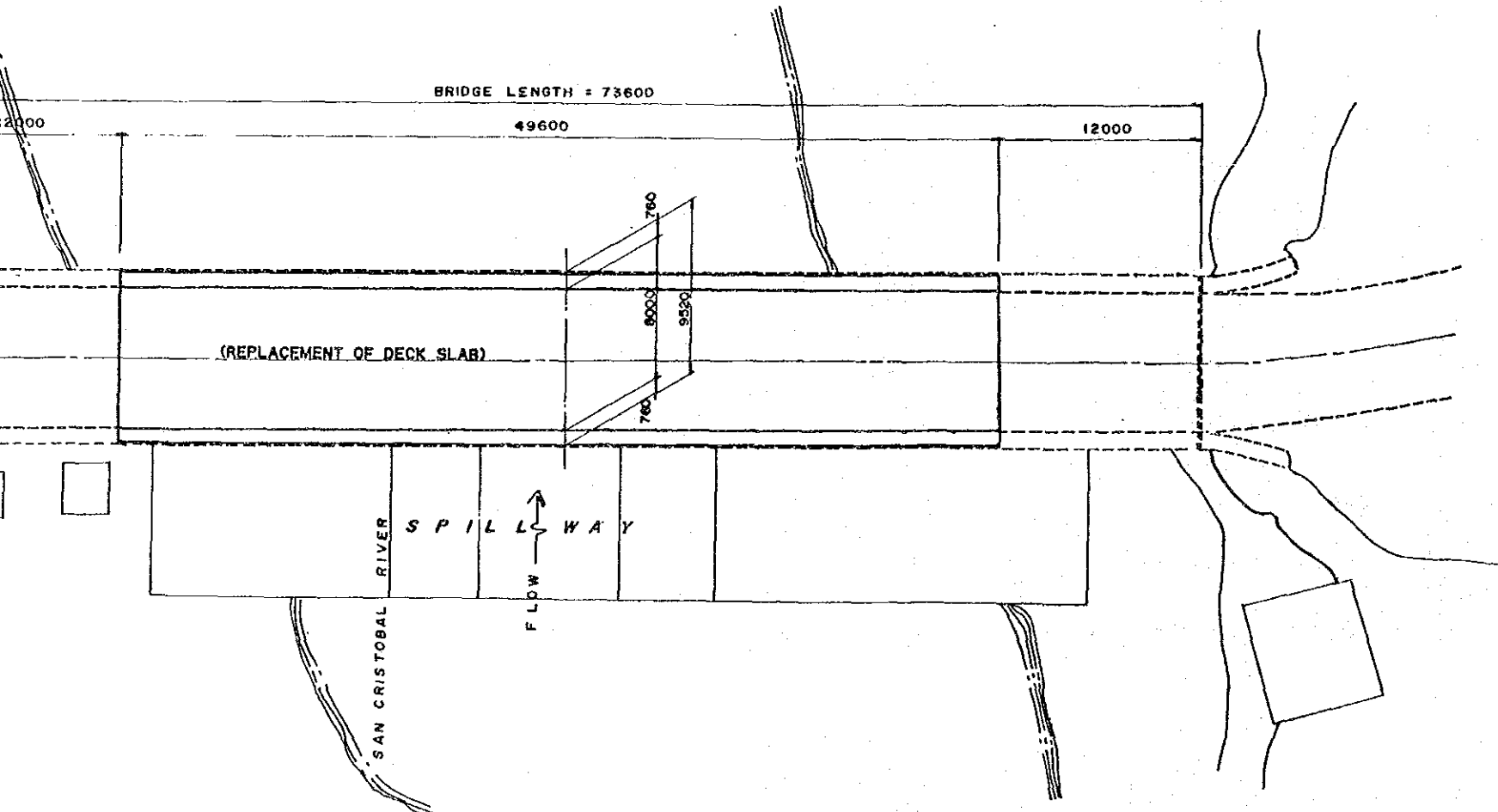


NOTE:  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

**PROFILE**  
SCALE: 1:250

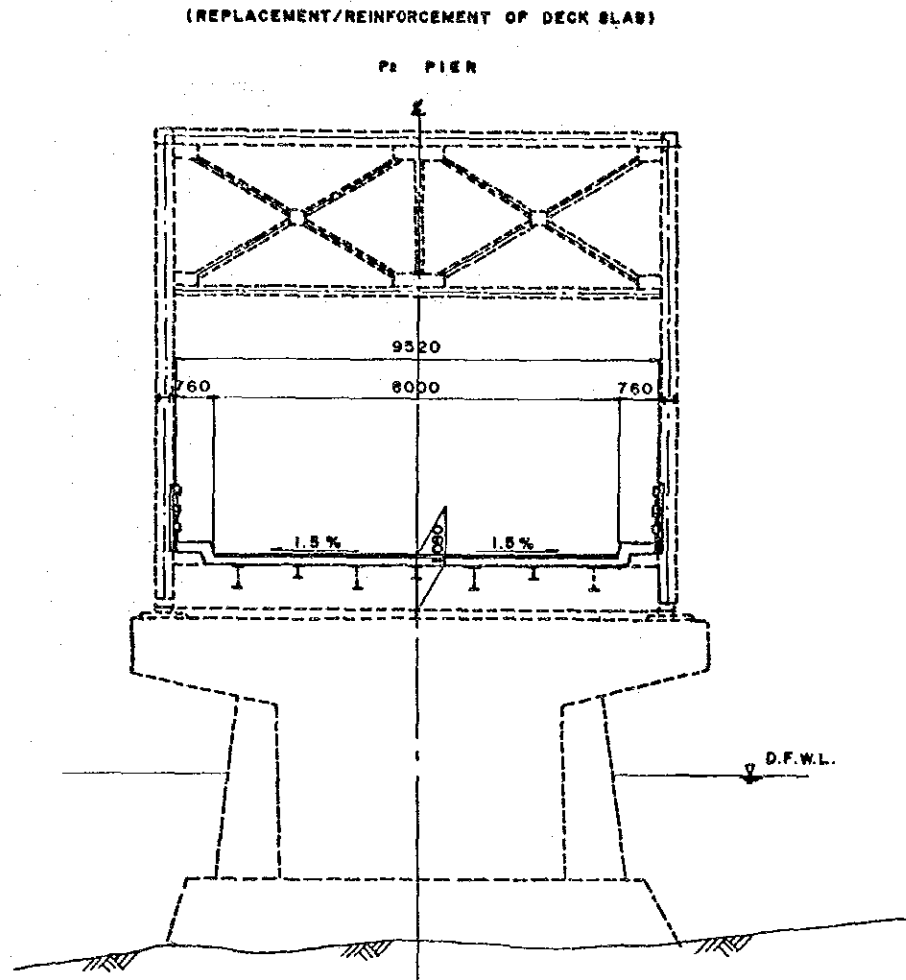


**PLAN**  
SCALE: 1:250

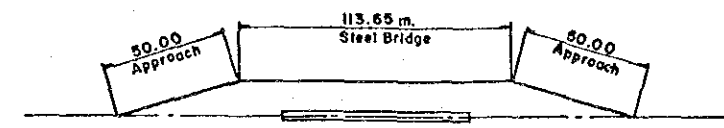


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	227	SAN CRISTOBAL	250 100 20	18/ 25

**CROSS SECTION**  
SCALE: 1:100

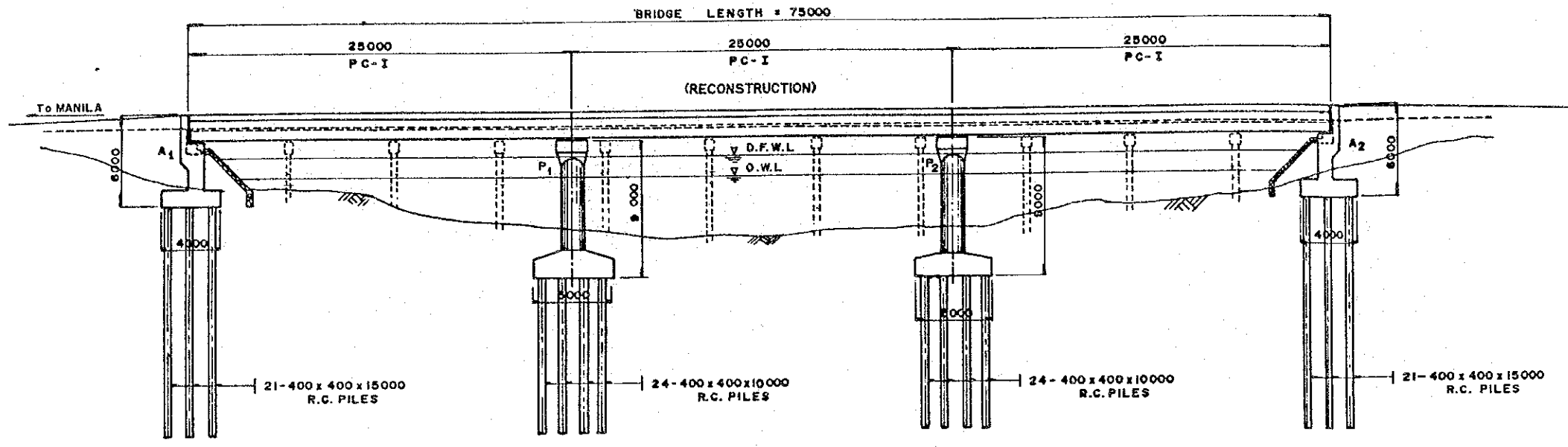


**DETOUR BRIDGE**  
SCALE: 1:20

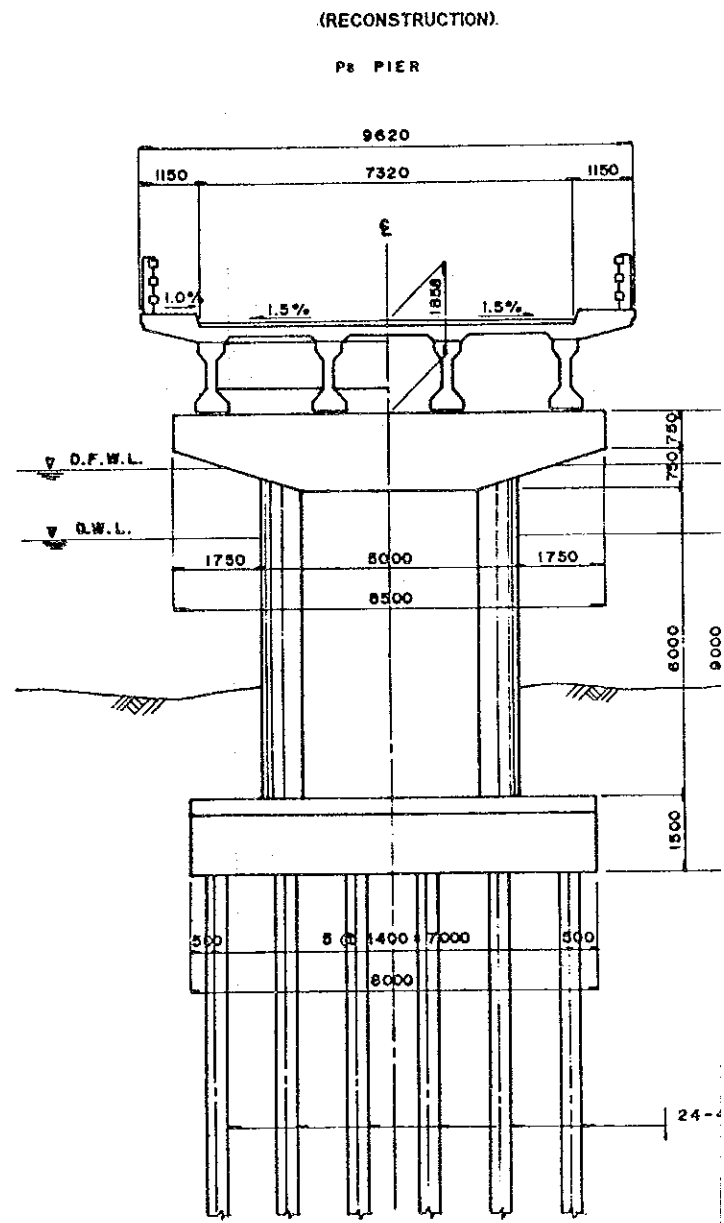


NOTE:  
• One Lane Detour

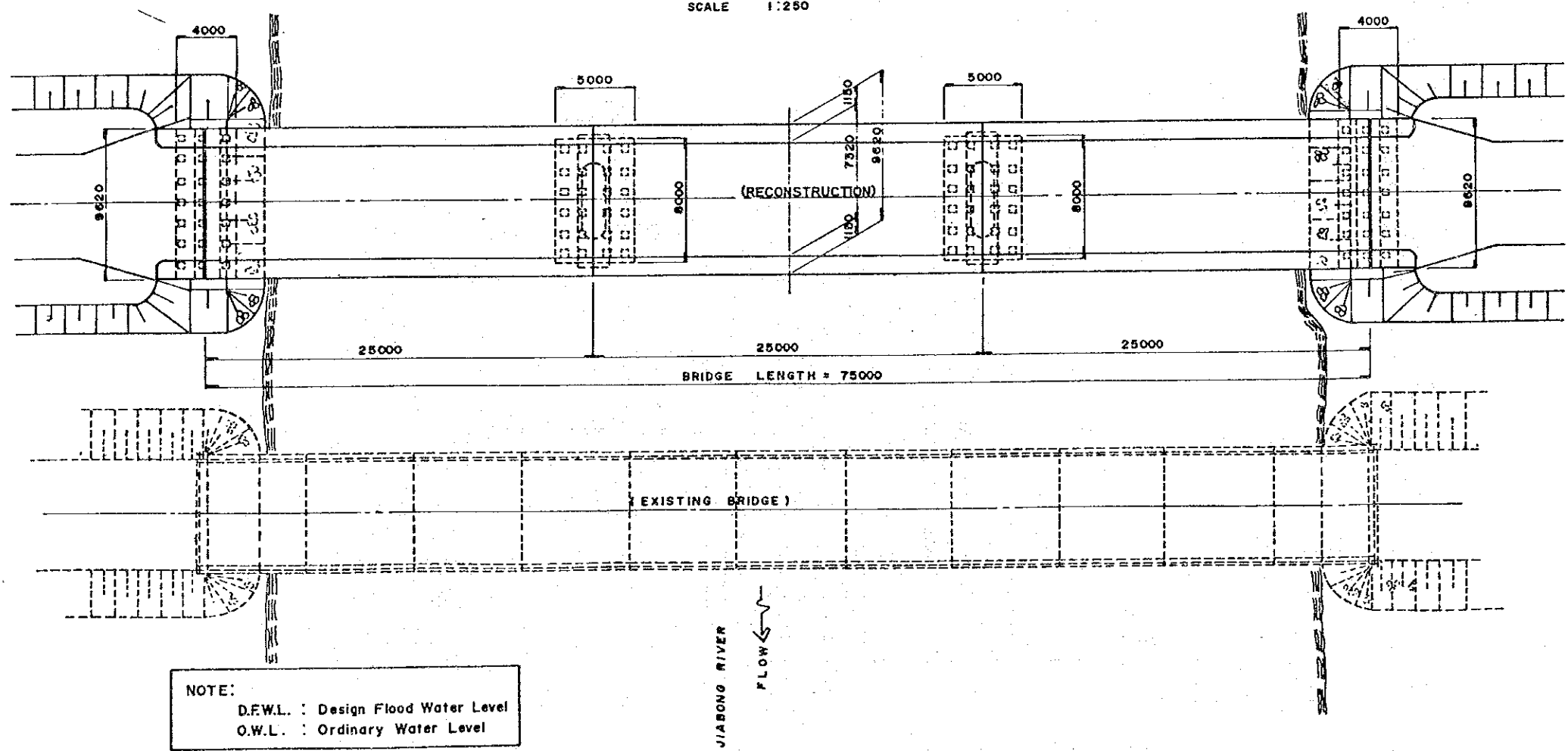
PROFILE  
 SCALE 1:250



CROSS SECTION  
 SCALE



PLAN  
 SCALE 1:250

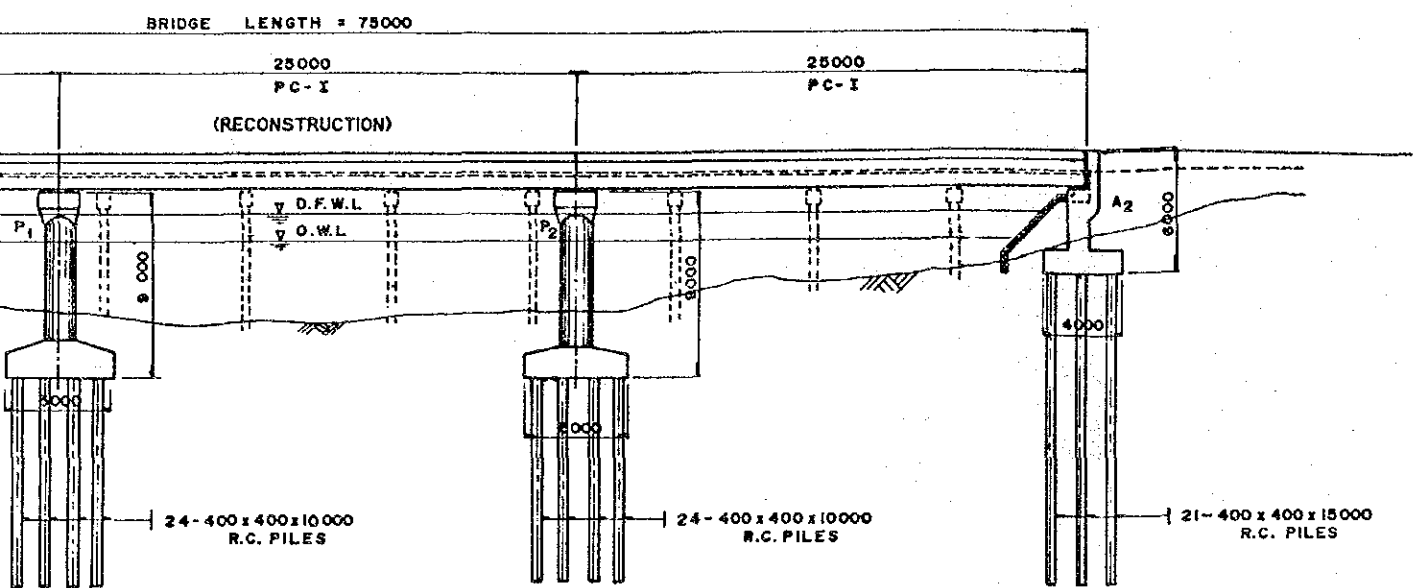


NOTE:  
 D.F.W.L. : Design Flood Water Level  
 O.W.L. : Ordinary Water Level

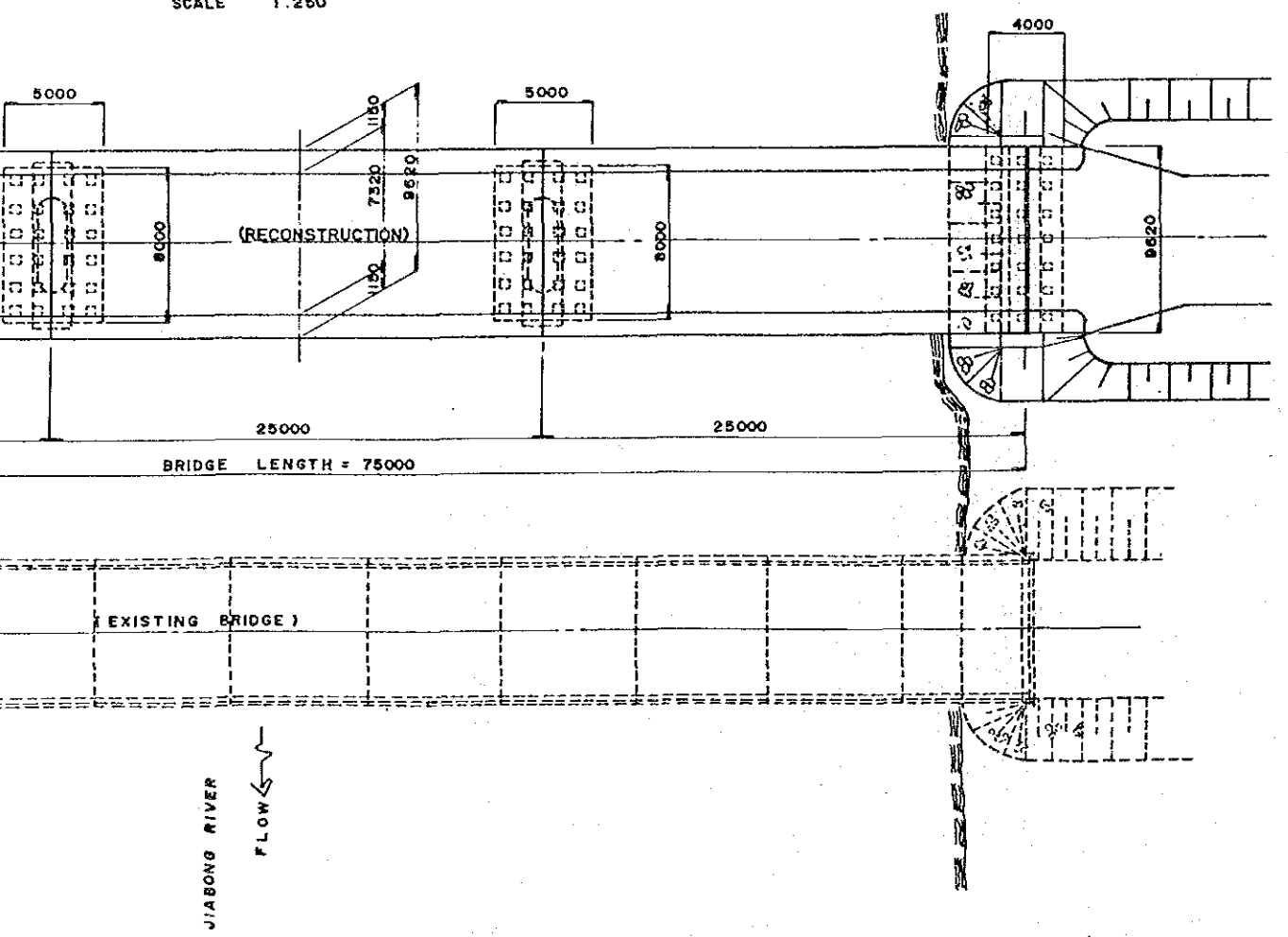


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	109	JIABONG	1:100 1:250	19/25

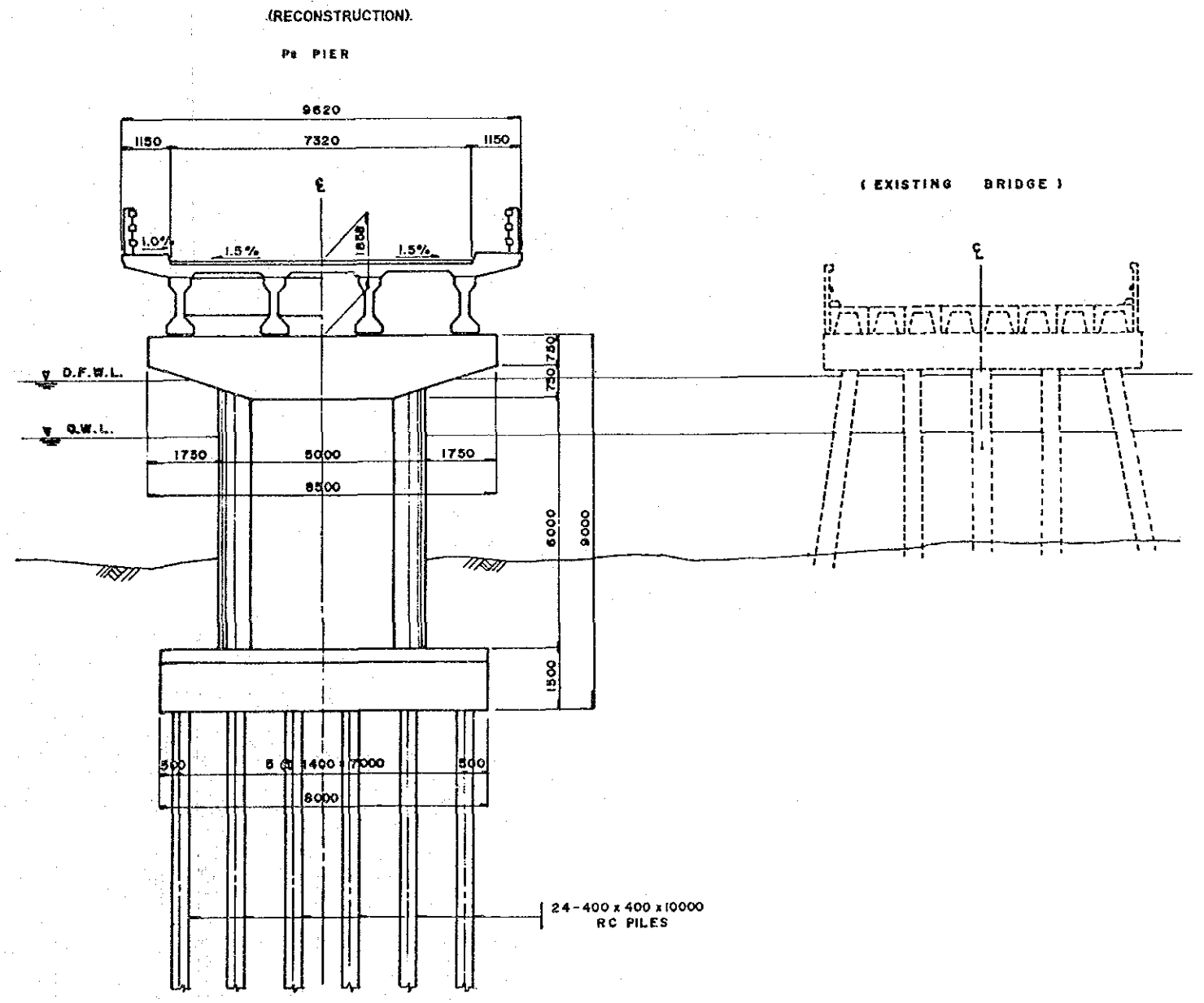
**PROFILE**  
SCALE 1:250



**PLAN**  
SCALE 1:250

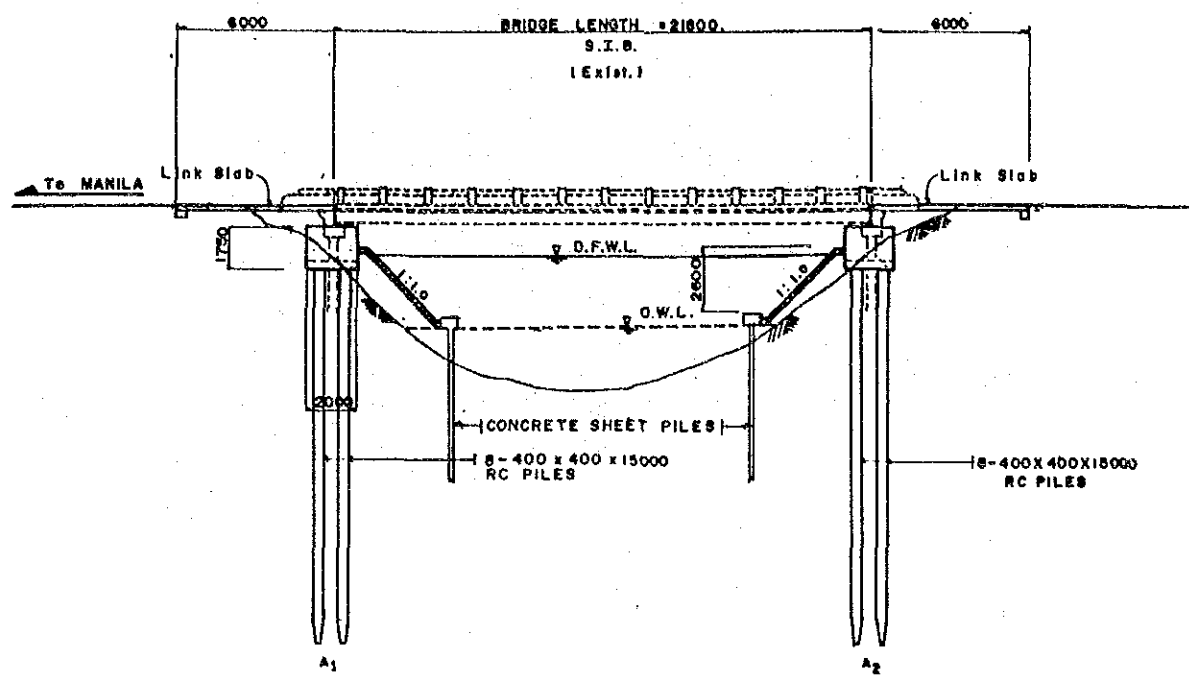


**CROSS SECTION**  
SCALE 1:100

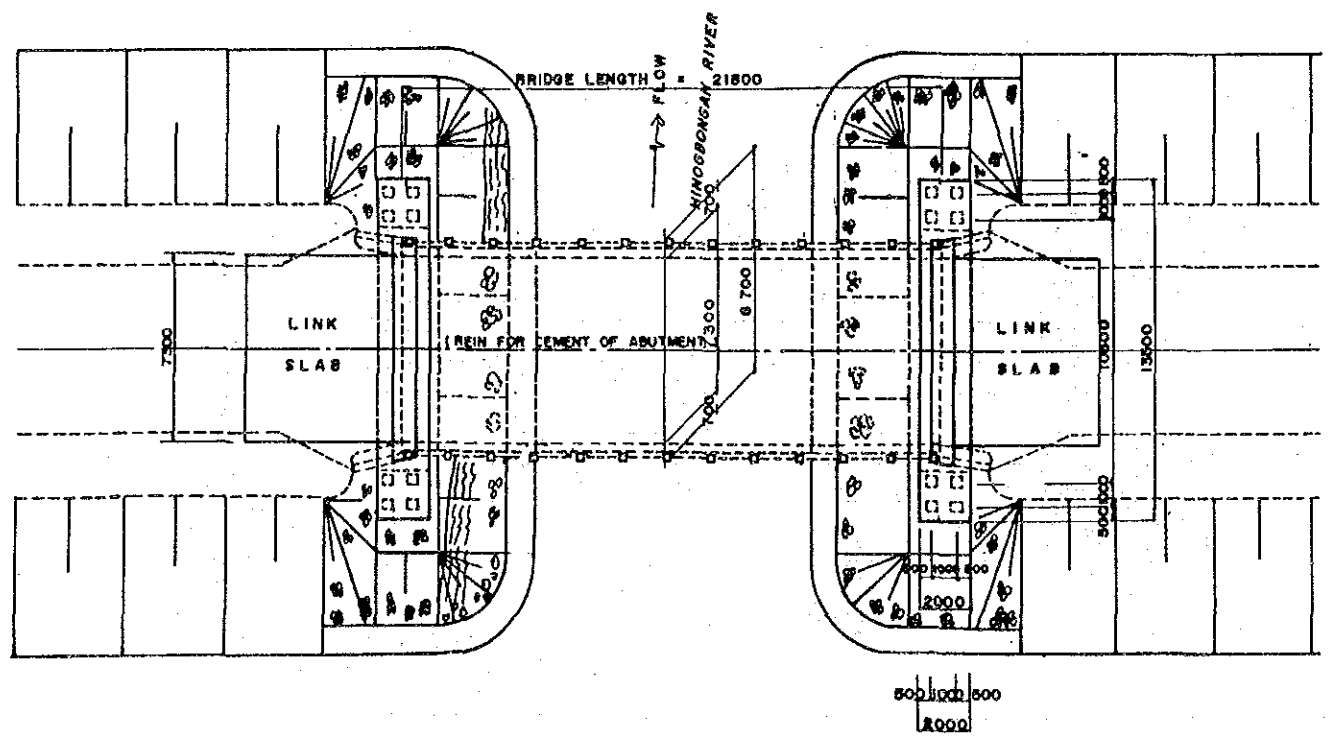


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	120	HINOGBONGAN	1:200 1:100	20/28

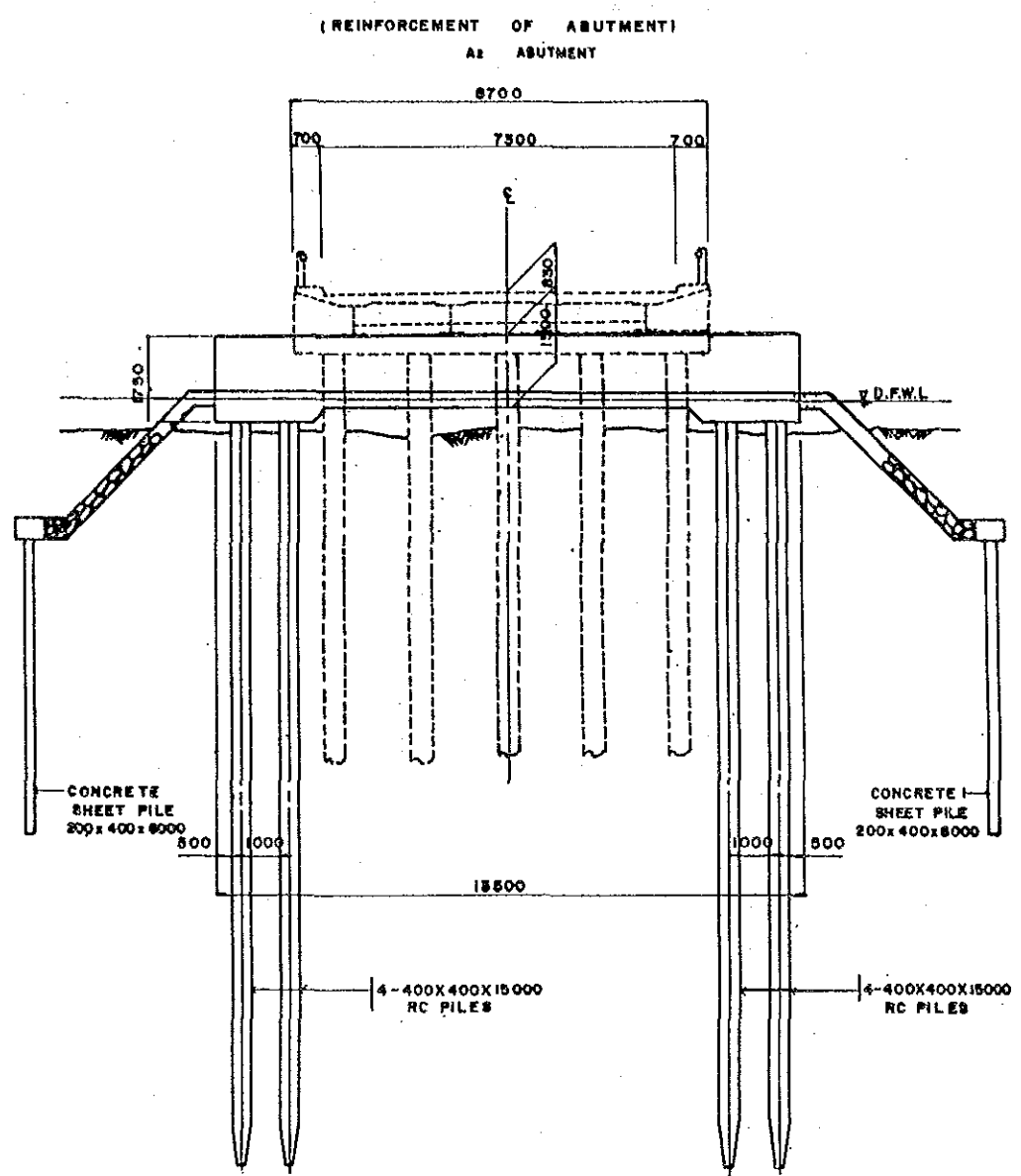
**PROFILE**  
SCALE: 1:200



**PLAN**  
SCALE: 1:200



**CROSS SECTION**  
SCALE: 1:100

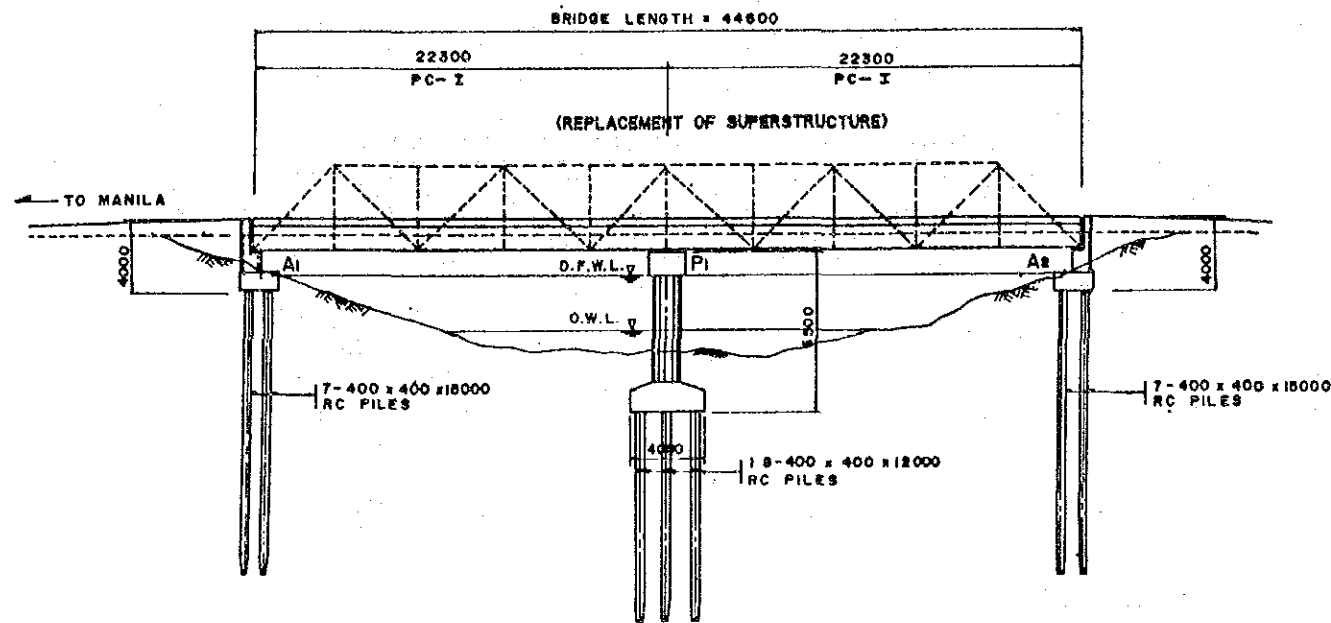


**NOTE:**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

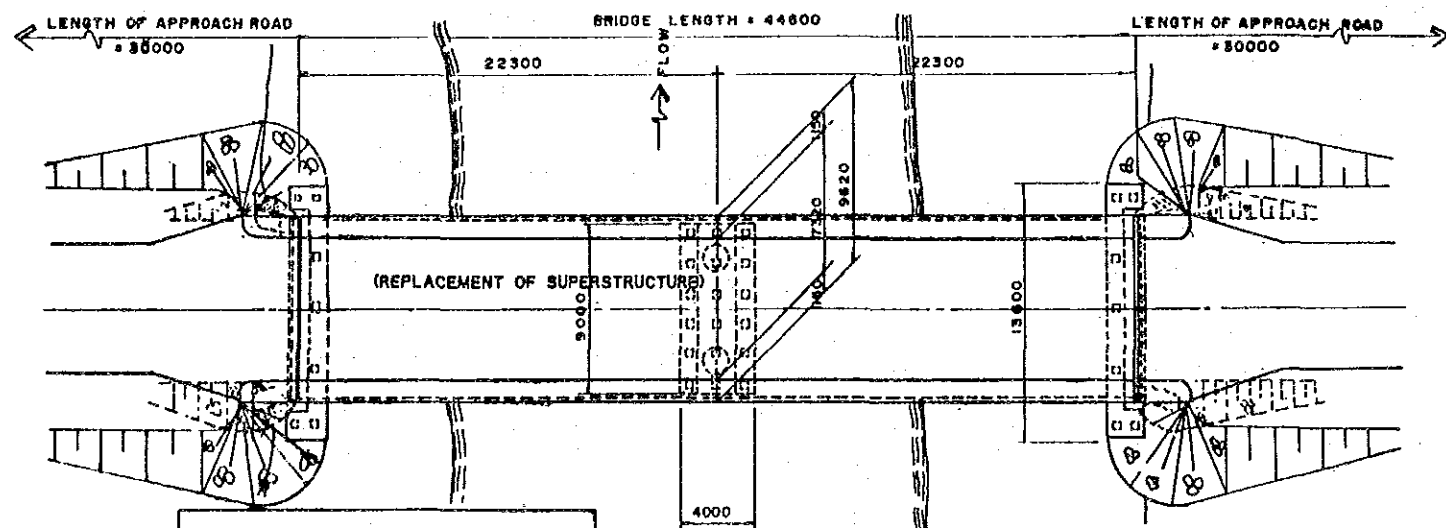
DETOUR BRIDGE: NONE

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	160	JUBASAN II	1:250 1:100 1:20	21/28

**PROFILE**  
SCALE: 1:250

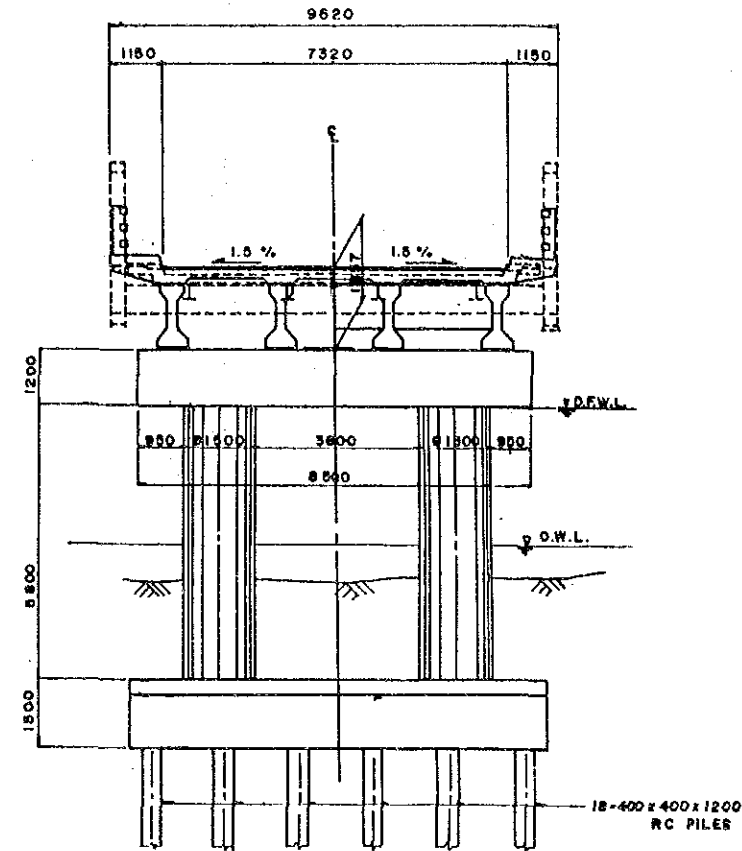


**PLAN**  
SCALE: 1:250

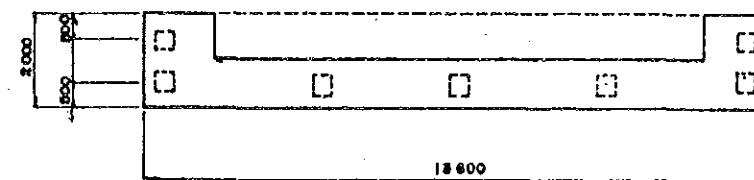


**NOTE:**  
D.F.W.L. : Design Flood Water Level  
O.W.L. : Ordinary Water Level

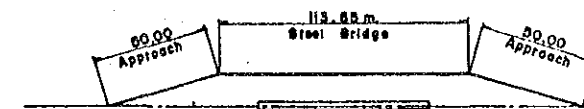
**CROSS SECTION**  
SCALE: 1:100  
(REPLACEMENT OF SUPERSTRUCTURE)  
PI PIER



**REINFORCEMENT OF ABUTMENT**  
**PLAN**  
SCALE: 1:100

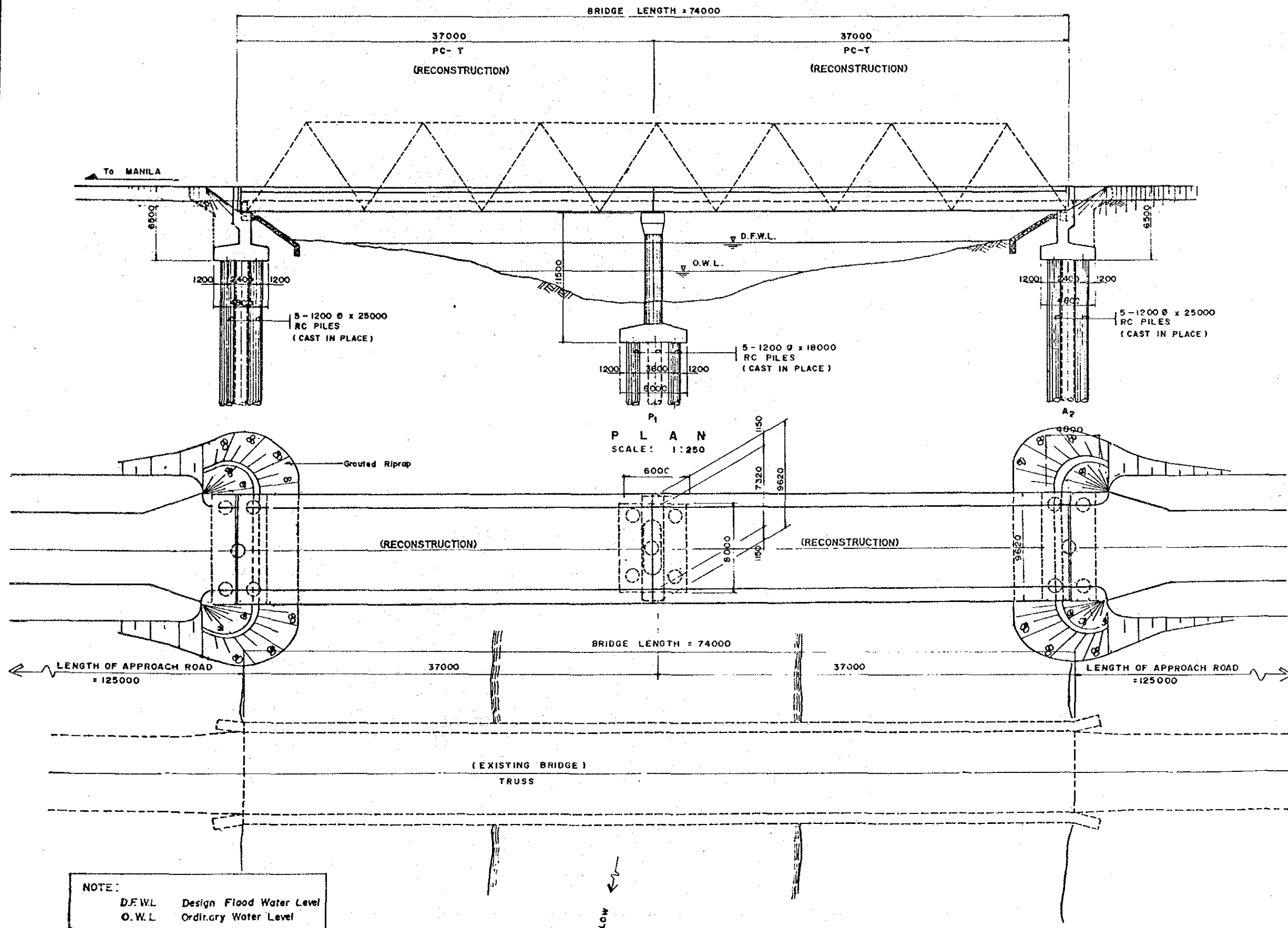


**DETOUR BRIDGE**  
SCALE: 1:20

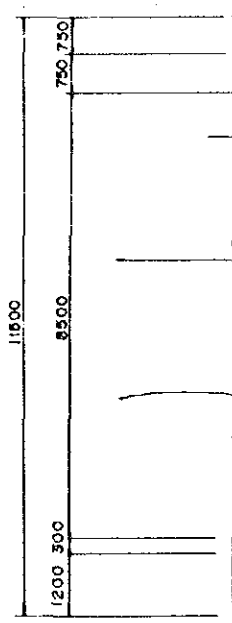


**NOTE:**  
• One Lane Detour

PROFILE  
SCALE: 1:250



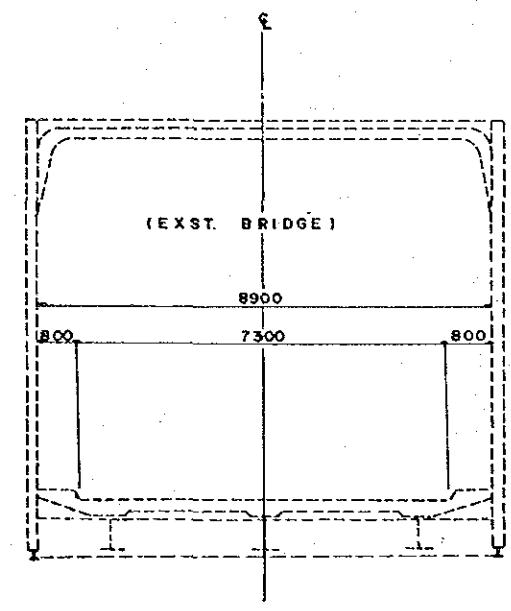
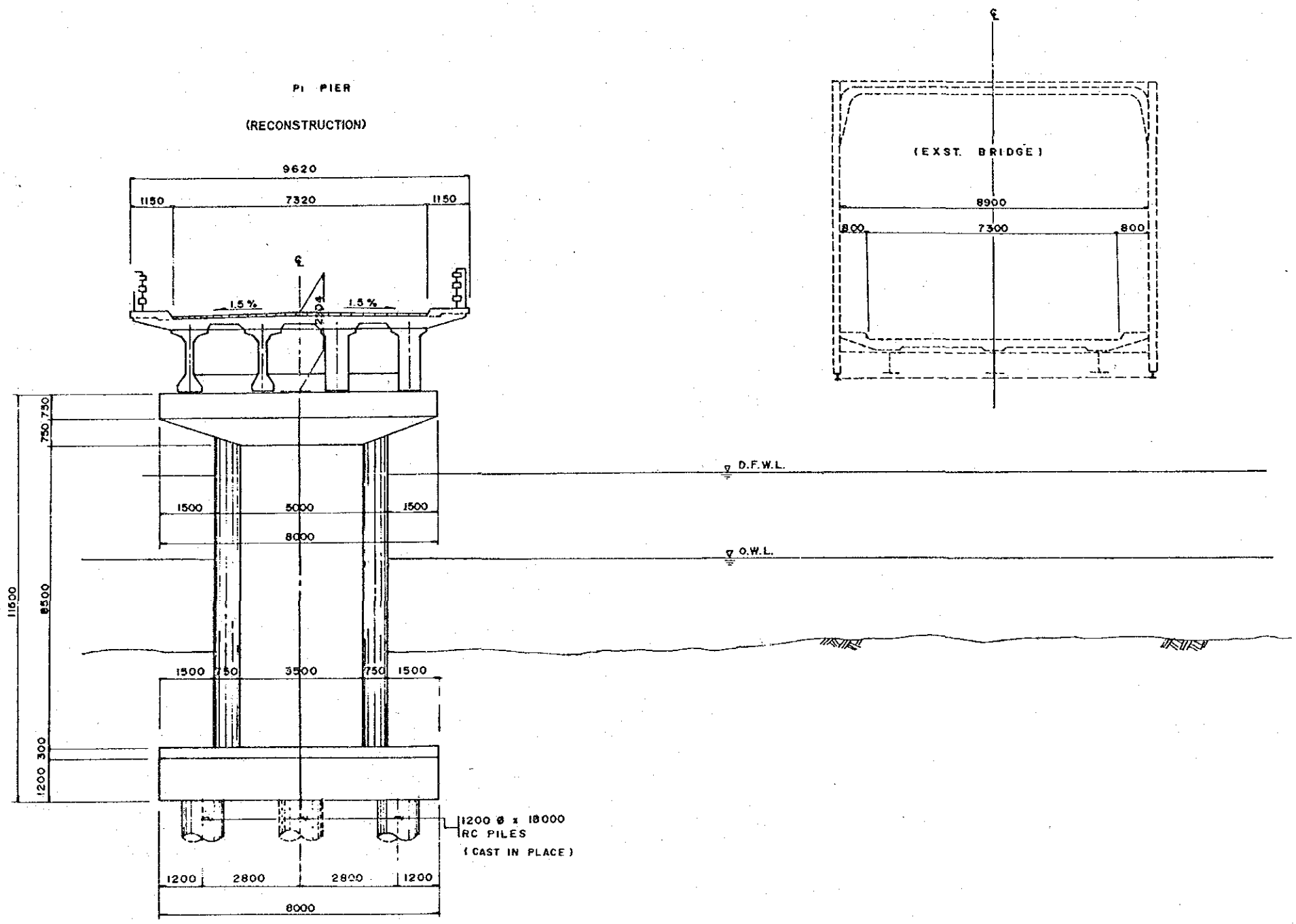
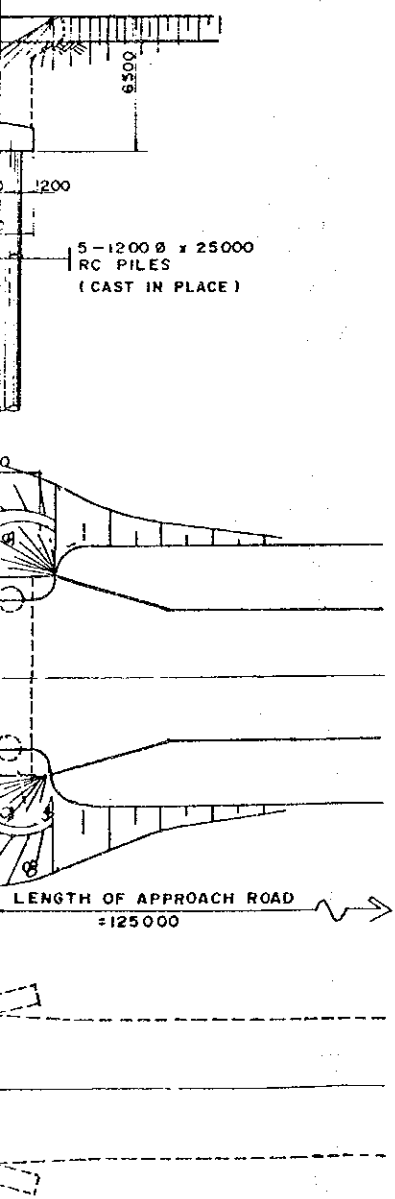
NOTE:  
D.F.W.L. Design Flood Water Level  
O.W.L. Ordinary Water Level



1150  
1000

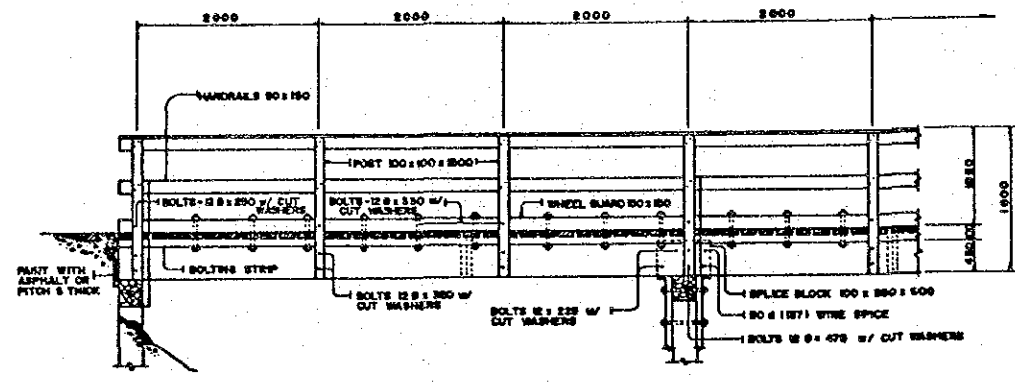
REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
GENERAL VIEW	161	JUBASAN 1	1:250 1:100	22/ 25

CROSS SECTION  
SCALE: 1:100

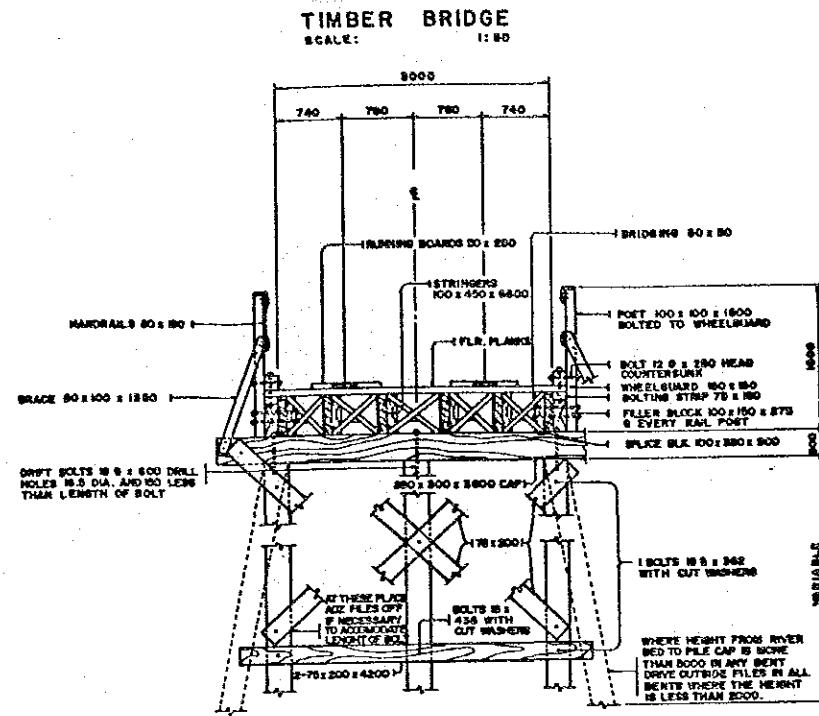


DETOUR BRIDGE : NONE

REHABILITATION AND MAINTENANCE (	
TITLE OF DRAWINGS	BRIDGE No.
DETOUR AND TEMPORARY BRIDGE	—

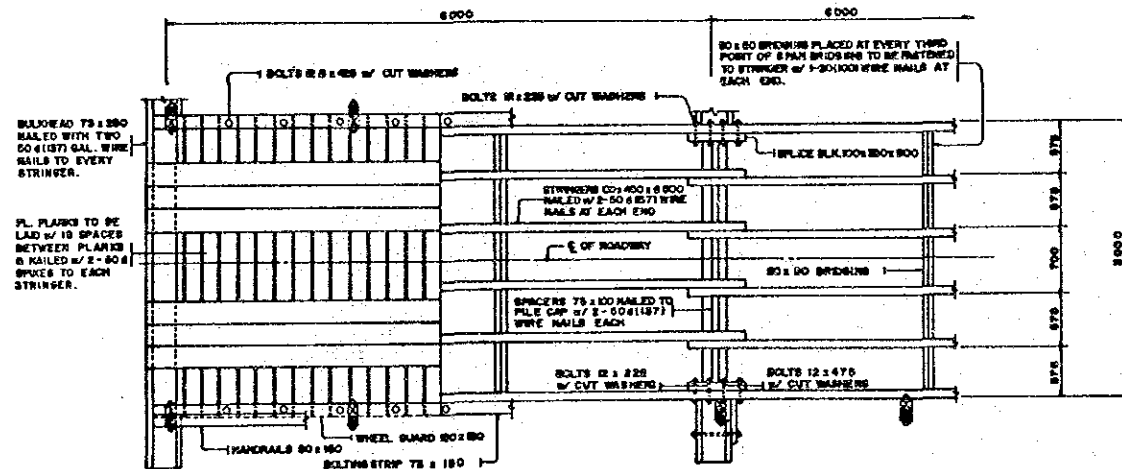


PART ELEVATION  
SCALE: 1:50

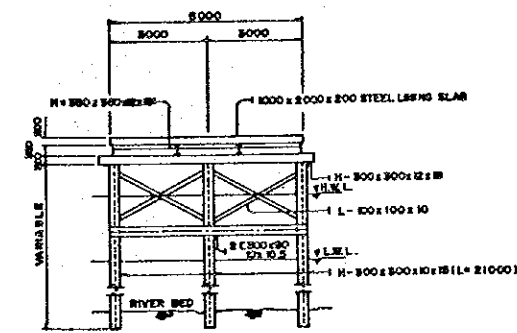


TIMBER BRIDGE  
SCALE: 1:50

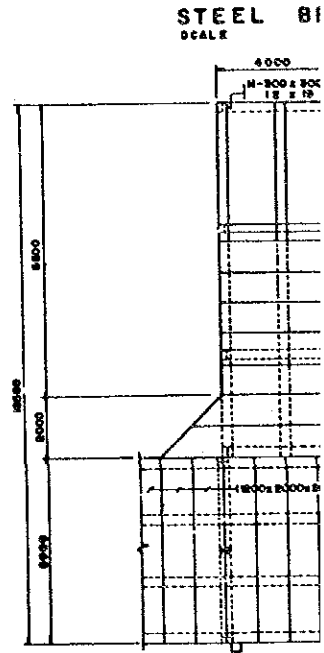
CROSS SECTION  
SCALE: 1:50



PART PLAN  
SCALE: 1:50

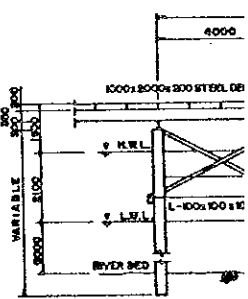


CROSS SECTION  
SCALE: 1:100



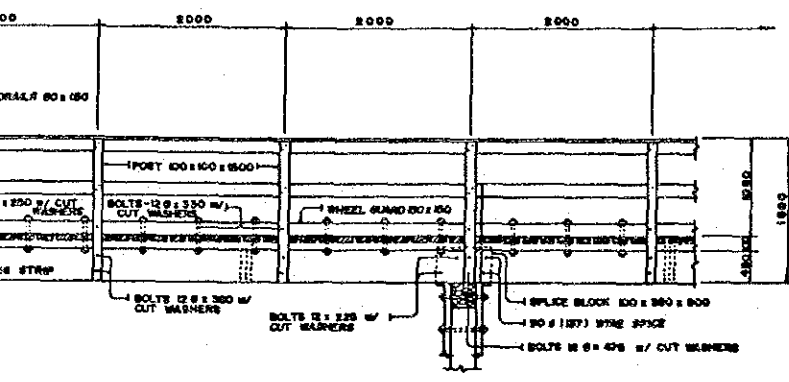
STEEL BRIDGE  
SCALE: 1:100

PART P  
SCALE: 1:100

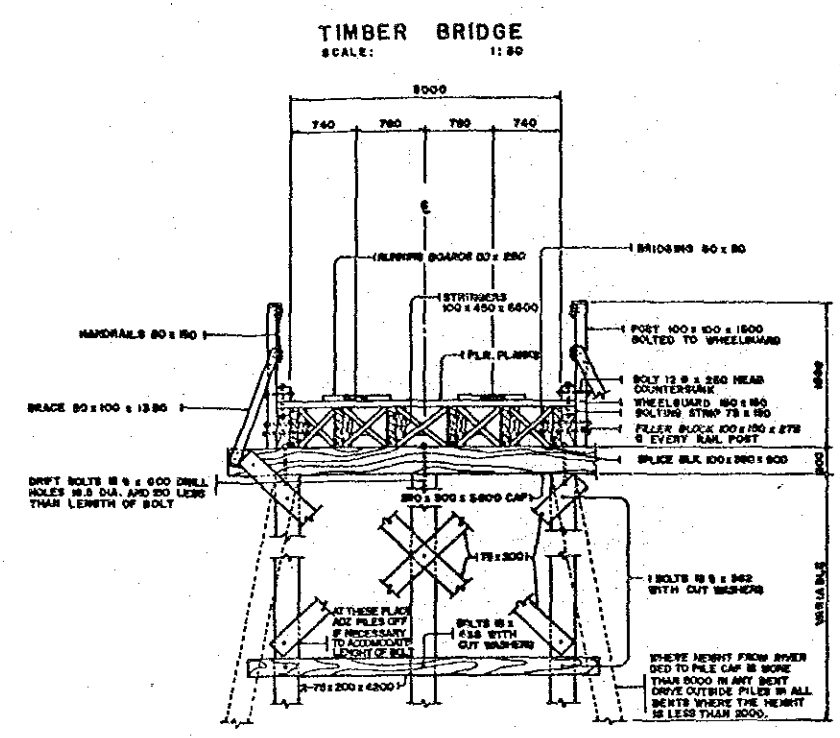


PART E  
SCALE: 1:100

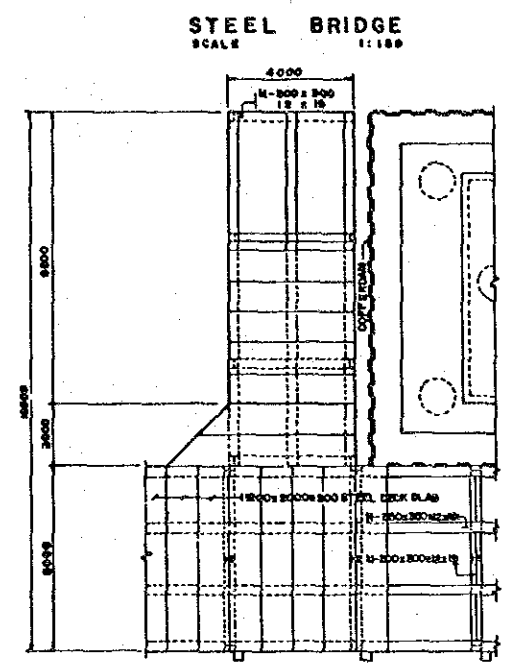
REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
DETOUR AND TEMPORARY BRIDGE	—	—	1:150 1:50	23/25



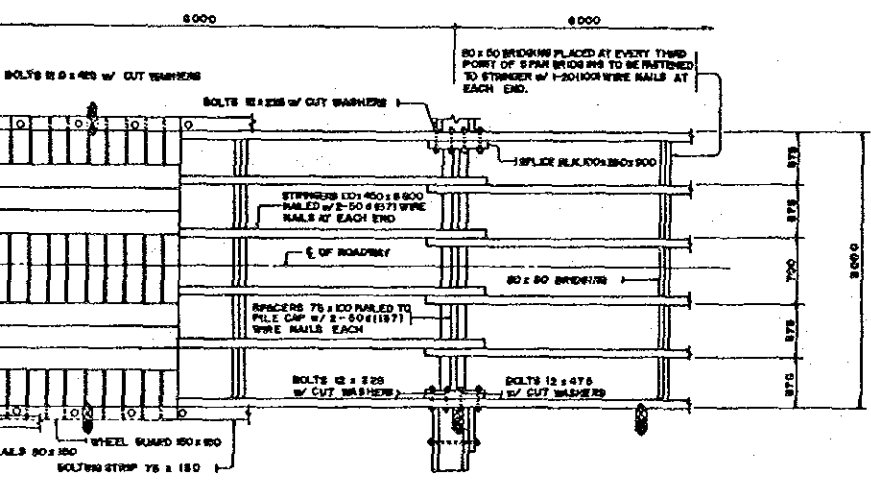
PART ELEVATION  
SCALE: 1:50



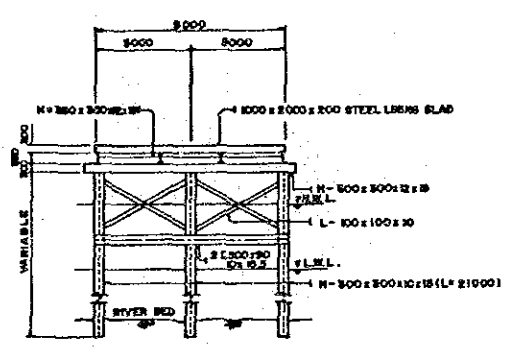
CROSS SECTION  
SCALE: 1:50



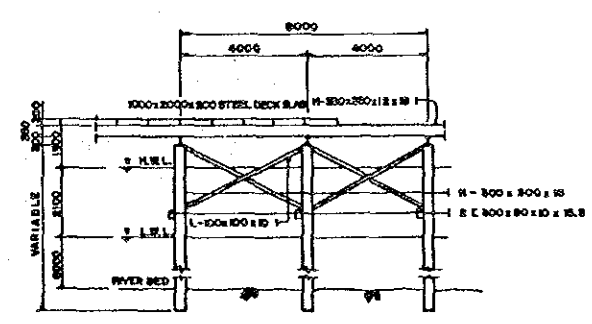
PART PLAN  
SCALE: 1:150



PART PLAN  
SCALE: 1:50



CROSS SECTION  
SCALE: 1:150

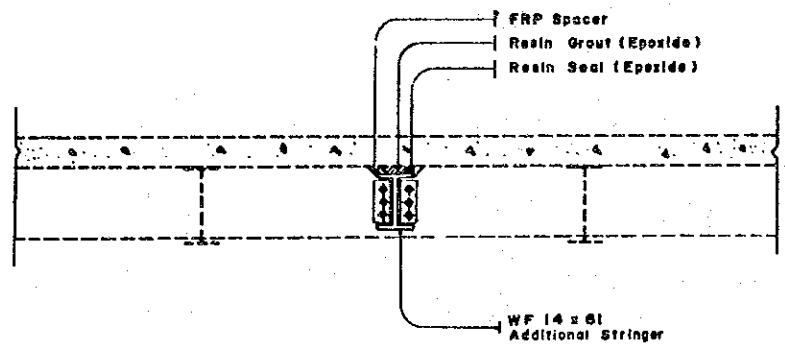


PART ELEVATION  
SCALE: 1:150

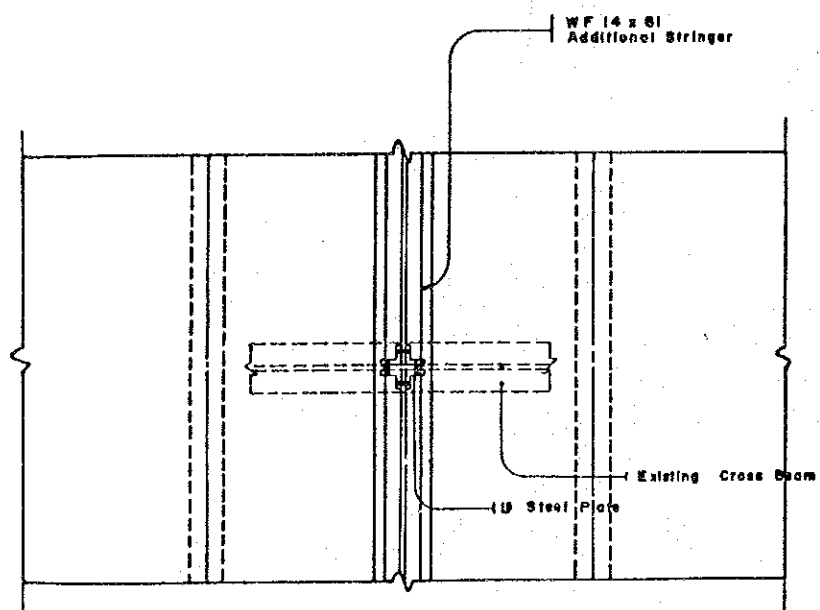
# SPECIAL WORKS FOR REHABILITATION

**ADDITIONAL STRINGER**

CROSS SECTION  
SCALE: 1:30

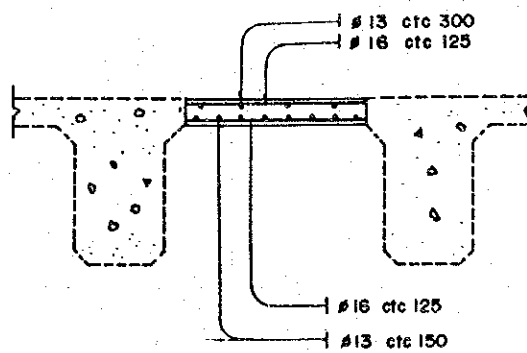


PLAN  
SCALE 1:30

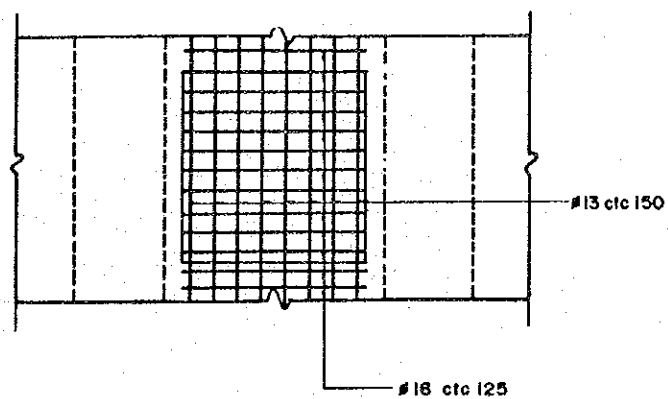


**REPLACEMENT OF DECK SLAB**

CROSS SECTION  
SCALE: 1:30



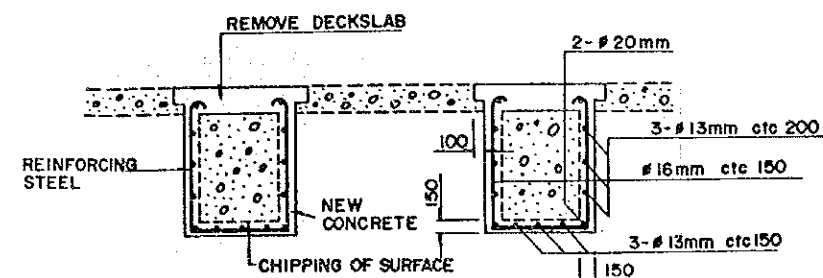
PLAN  
SCALE 1:30



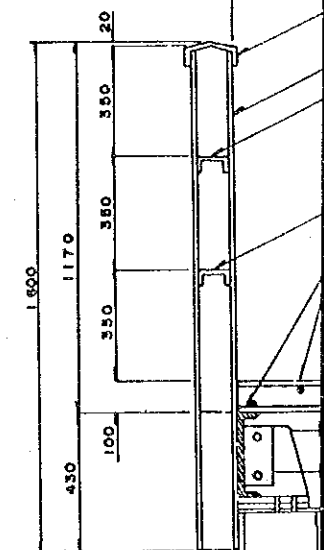
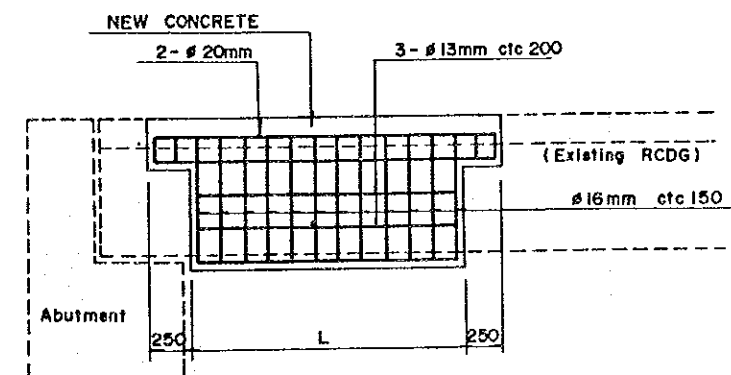
NOTE:  
FRP = Fiber Resin Plastic  
WF = Wide Flange

**REINFORCING CONCRETE BEAM**

CROSS SECTION  
SCALE: 1:30



SIDE VIEW  
SCALE 1:30



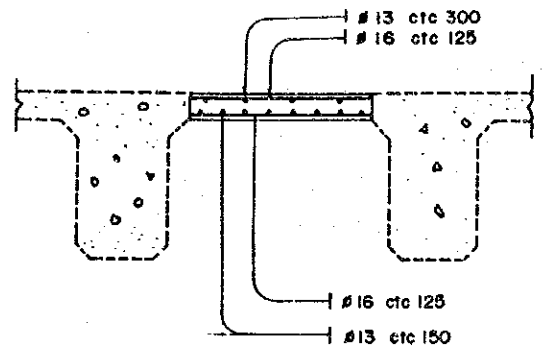


REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
SPECIAL WORKS FOR REHABILITATION	---	---	1:30 1:15	24 25

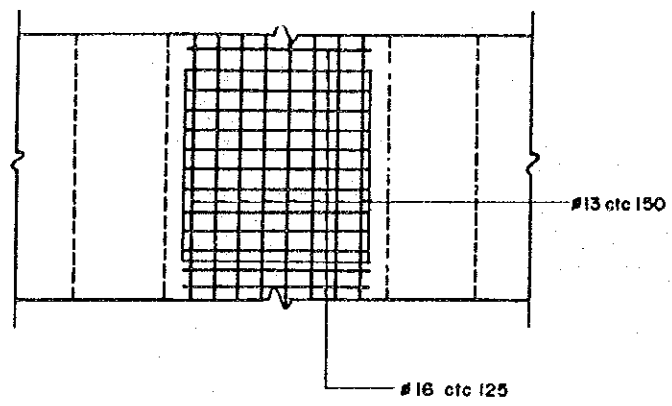
# SPECIAL WORKS FOR REHABILITATION

REPLACEMENT OF DECK SLAB

CROSS SECTION  
SCALE: 1:30

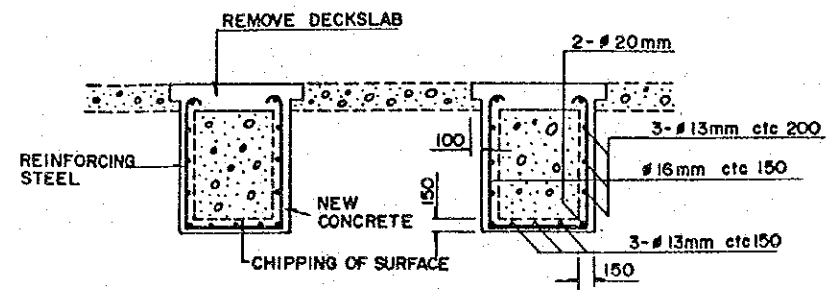


P L A N  
SCALE 1:30

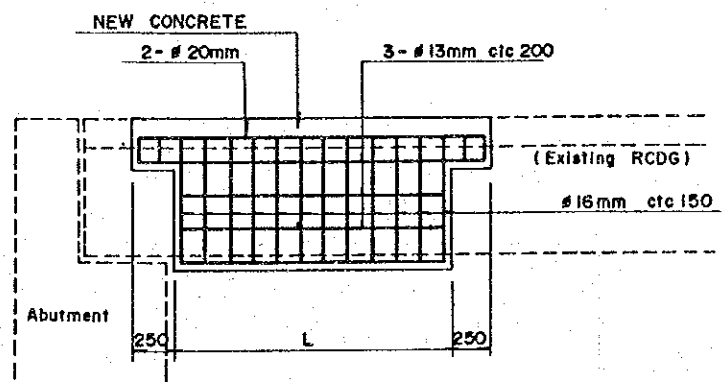


REINFORCING CONCRETE BEAM

CROSS SECTION  
SCALE: 1:30

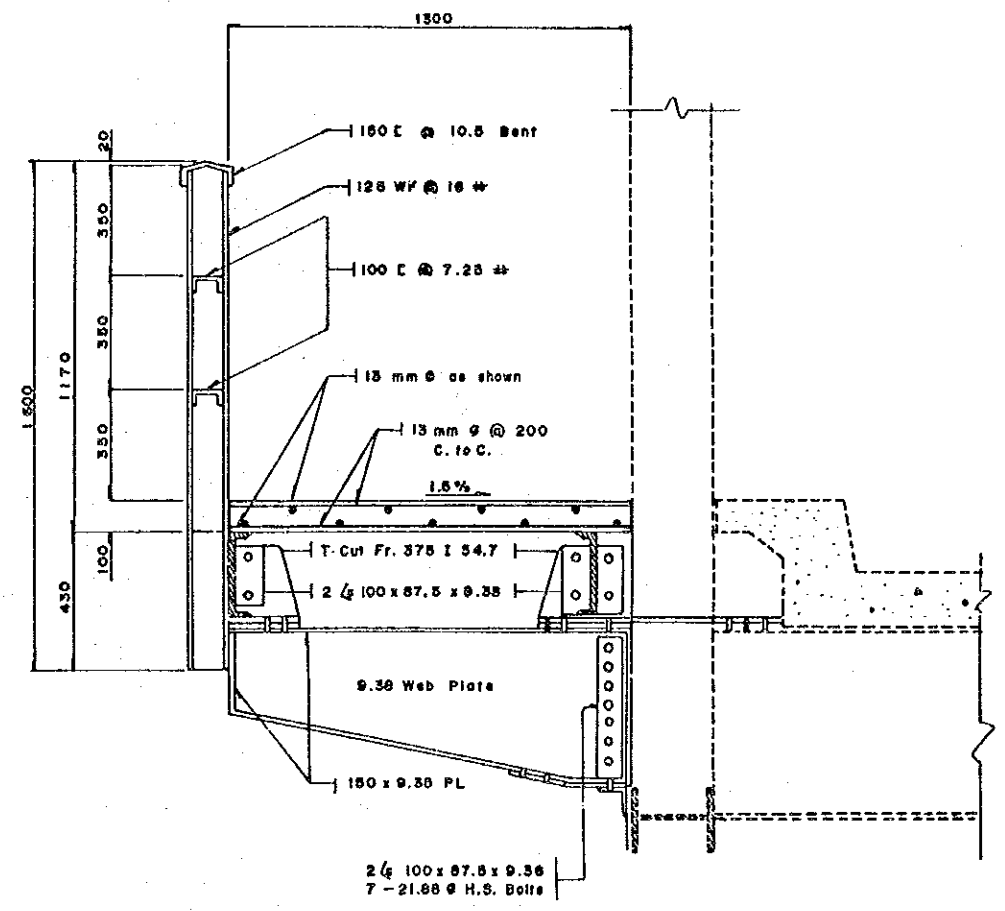


S I D E V I E W  
SCALE 1:30



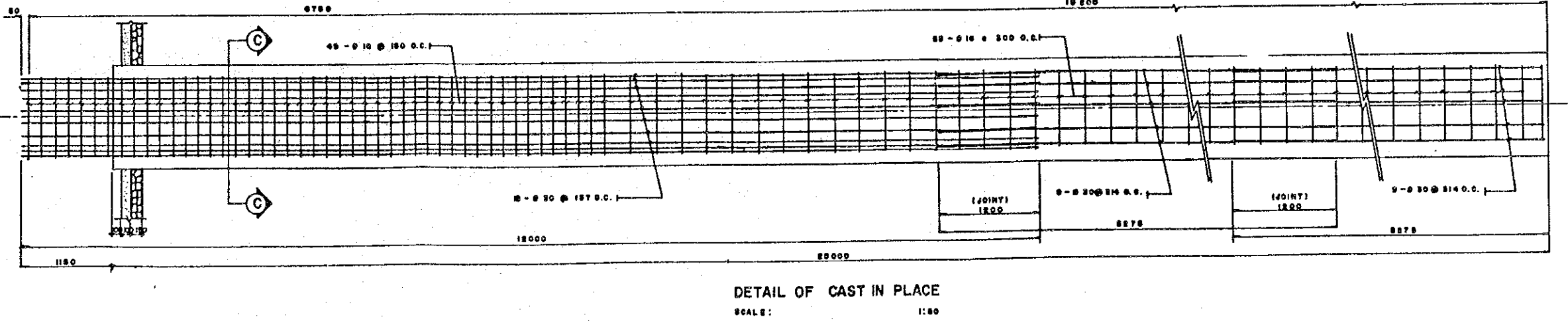
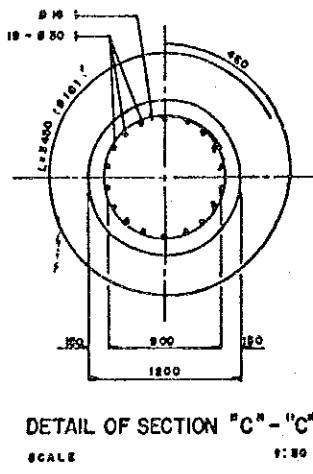
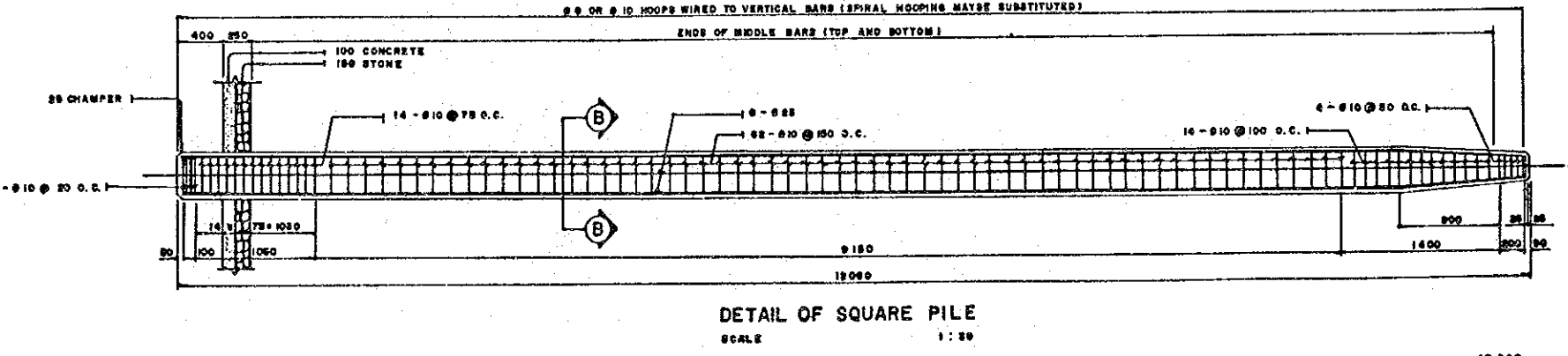
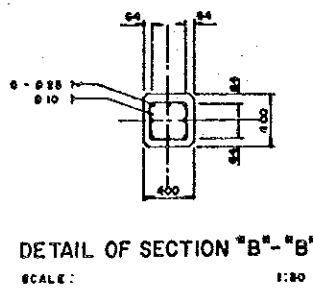
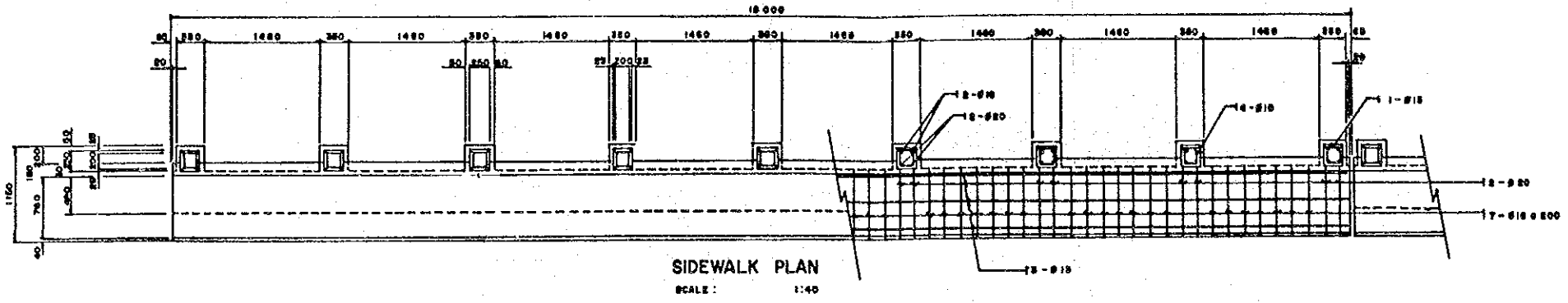
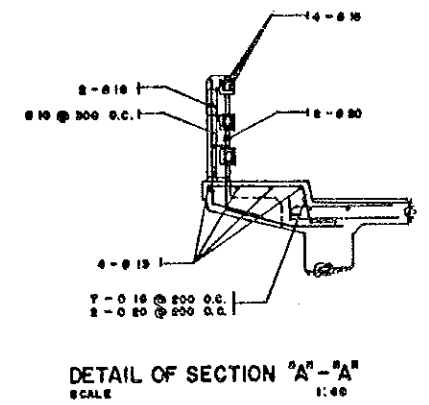
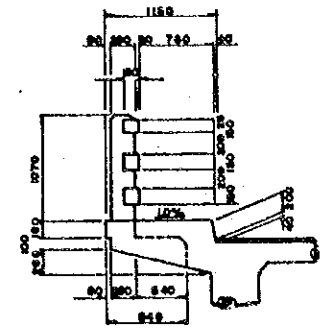
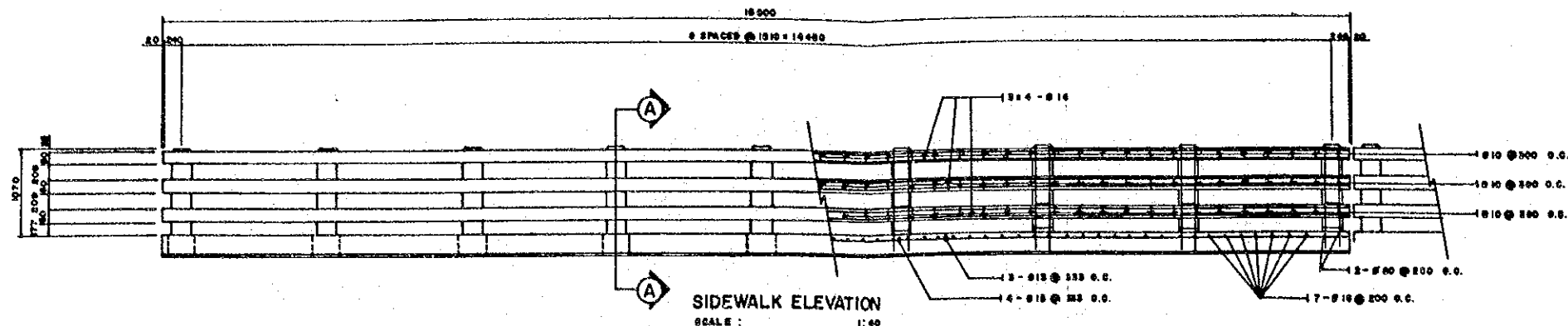
ADDITIONAL SIDEWALK

CROSS SECTION  
SCALE: 1:15

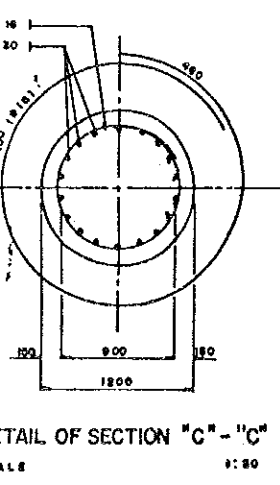
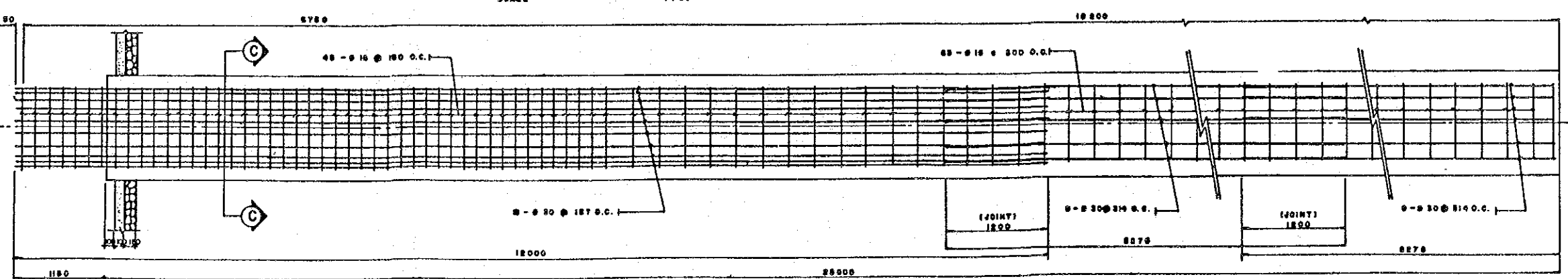
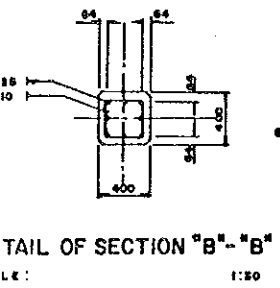
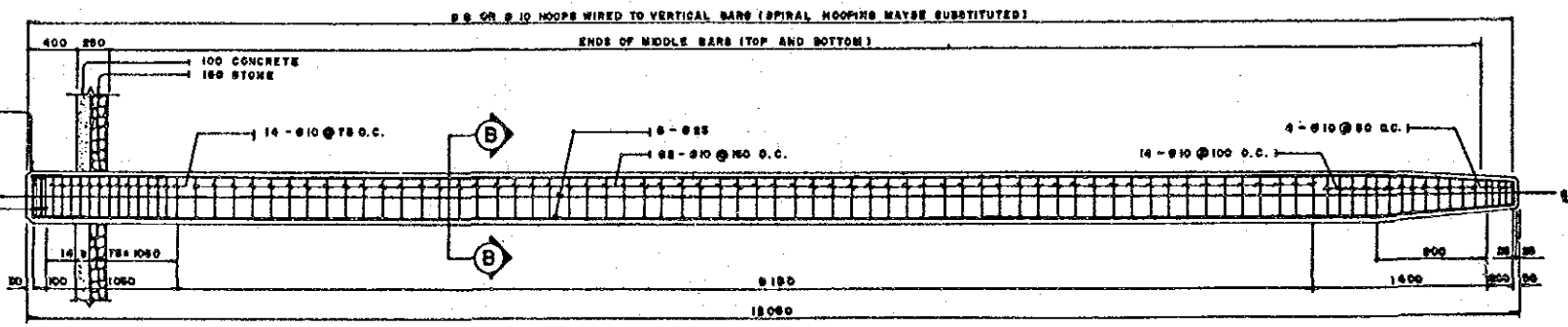
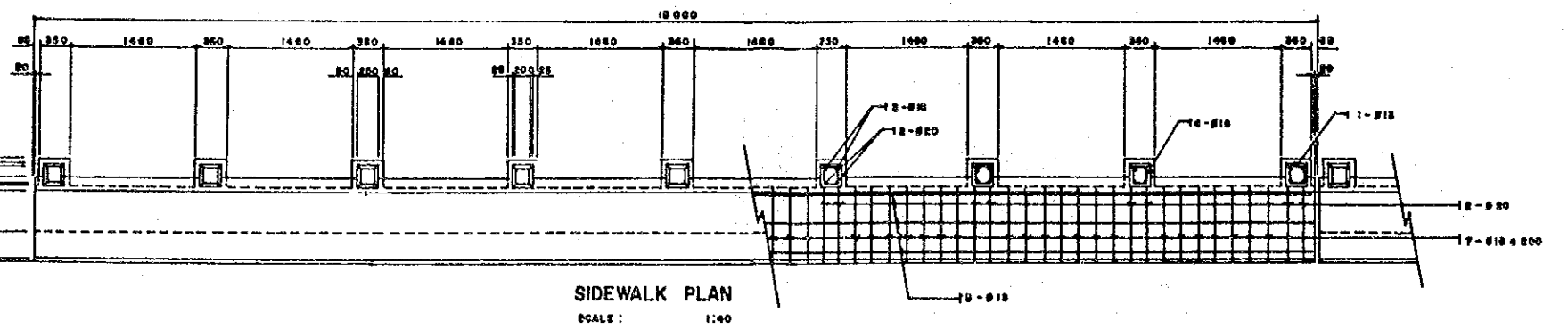
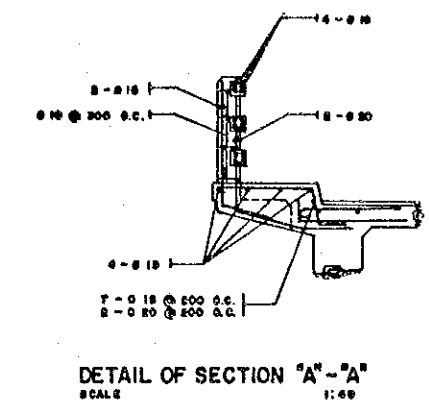
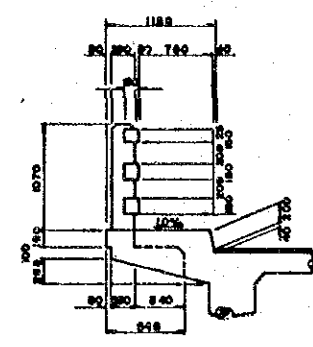
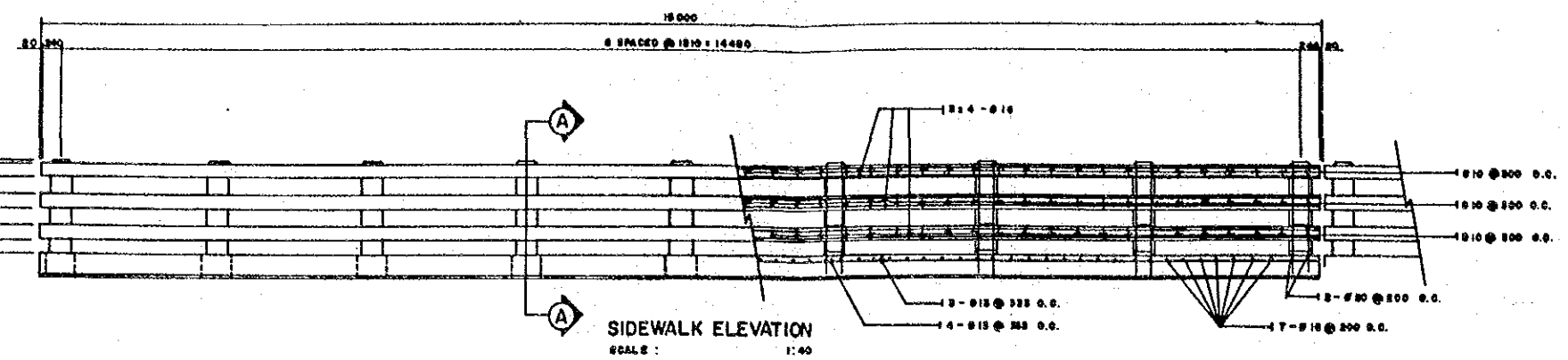


NOTE:  
FRP = Fiber Resin Plastic  
WF = Wide Flange

REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL			
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE
DETAILED PILE AND RAILING	---	---	1:4 1:3



REHABILITATION AND MAINTENANCE OF BRIDGES ALONG ARTERIAL ROADS				
TITLE OF DRAWINGS	BRIDGE NO.	BRIDGE NAME	SCALE	DRAWING NO.
DETAILED PILE AND RAILING	---	---	1:40 1:30	25/25





JICA