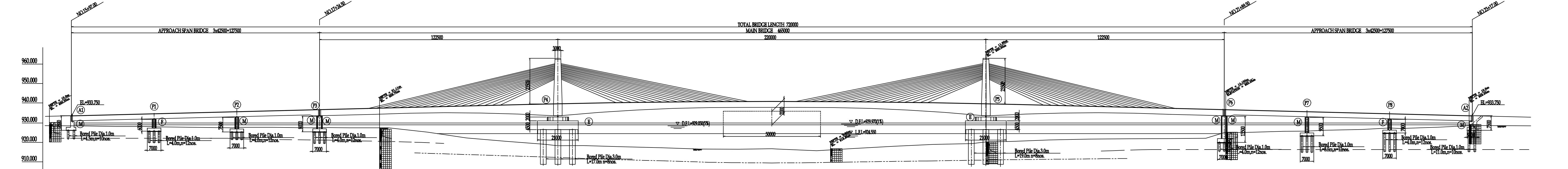


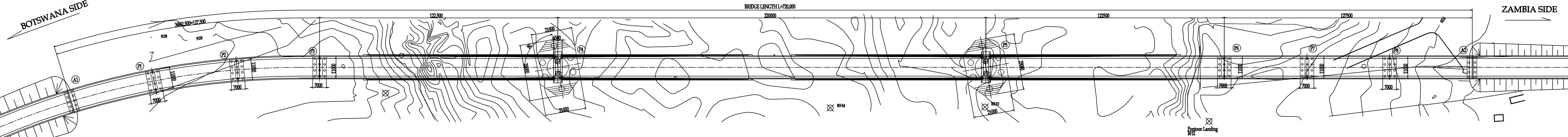
GENERAL VIEW OF MAIN BRIDGE

SIDE ELEVATION SCALE 1:1000

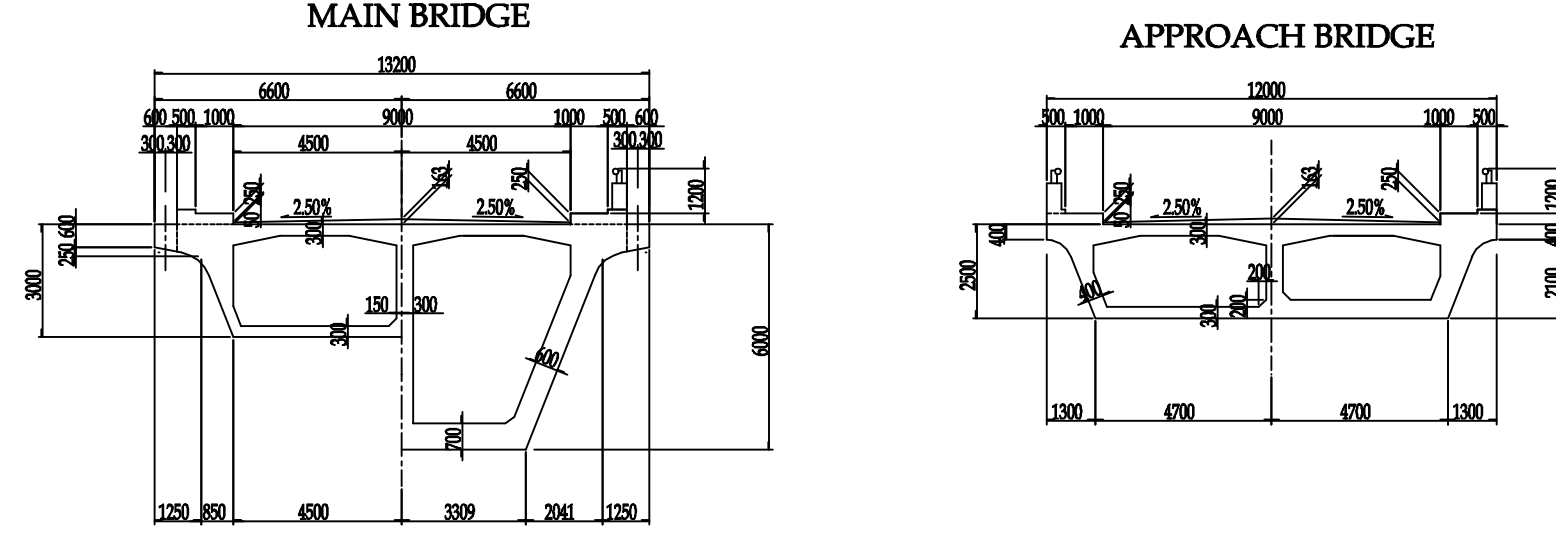


GRADE	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>																			
PROPOSED HEIGHT	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5
GROUND HEIGHT	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5
STATION	0+00	0+25	0+50	0+75	1+00	1+25	1+50	1+75	2+00	2+25	2+50	2+75	3+00	3+25	3+50	3+75	4+00	4+25	4+50	4+75
CURVE ELEMENT	R=400m																			

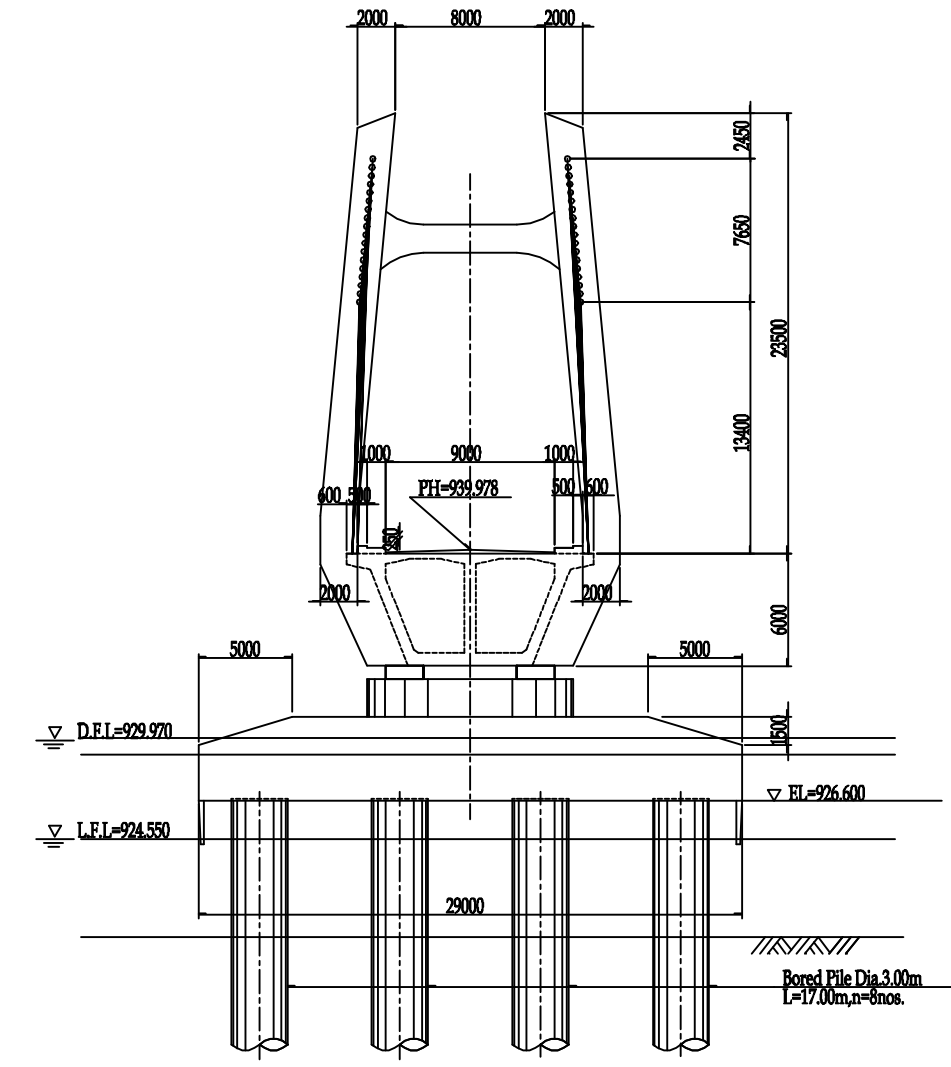
PLAN SCALE 1:1000



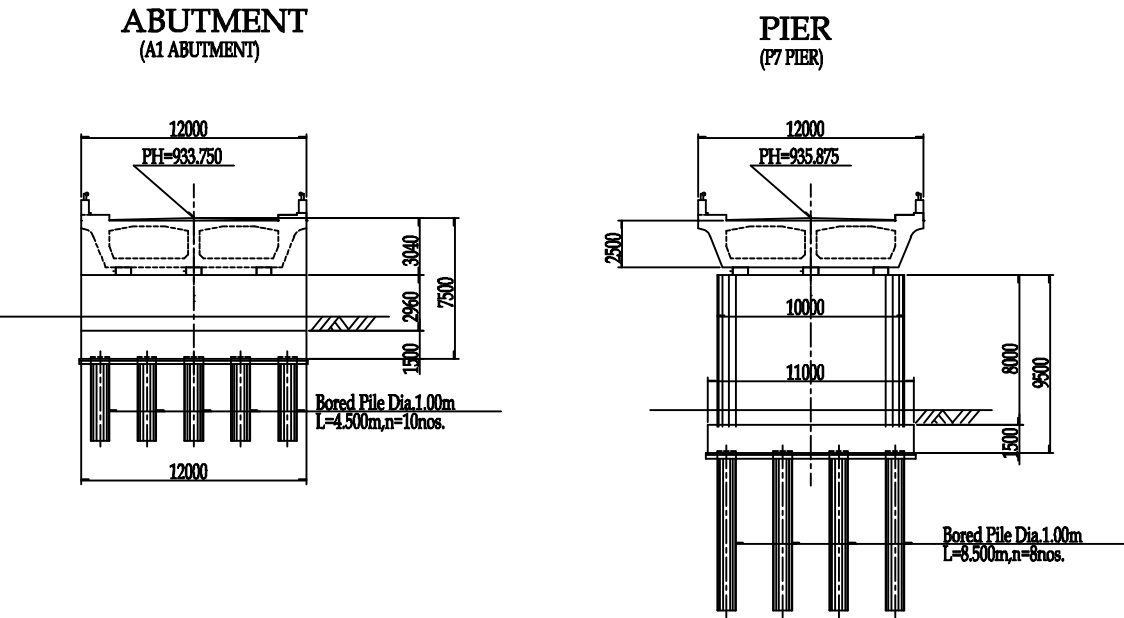
TYPICAL SECTION SCALE 1:200



P4 PIER, PYLON



SUB-STRUCTURE SCALE 1:400

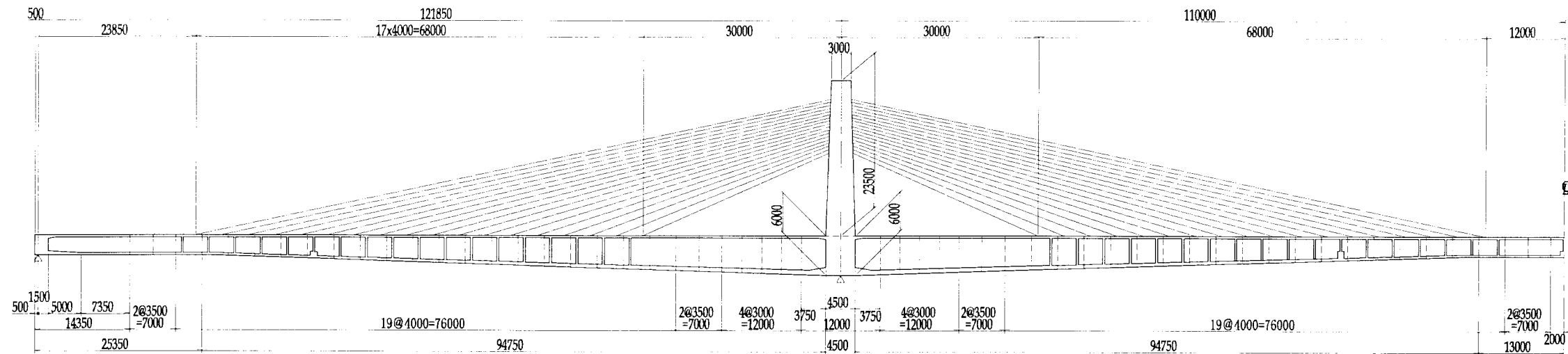


DESIGN CRITERIA		
TYPE	MAIN BRIDGE	EXTRA-DOSSED BOX GIRDER
BRIDGE LENGTH	APPROACH BRIDGE	CONTINUOUS PC BOX GIRDER
MAIN BRIDGE	APPROACH BRIDGE	L=465.00m
SPAN LENGTH	MAIN BRIDGE	L= 2x127.50+255.00m
APPROACH BRIDGE	MAIN BRIDGE	122.50m+220m+122.50m
WIDTH	APPROACH BRIDGE	3x42.50m
DESIGN LOAD	CARRIAGEWAY 2x4.50m+9.00m	
RADIUS OF CURVATURE	SIDWALK 2x1.00+2.00m	
LONGITUDINAL SLOPE	R=∞	
	2.5% V.C.L=250m(R=5000m)	

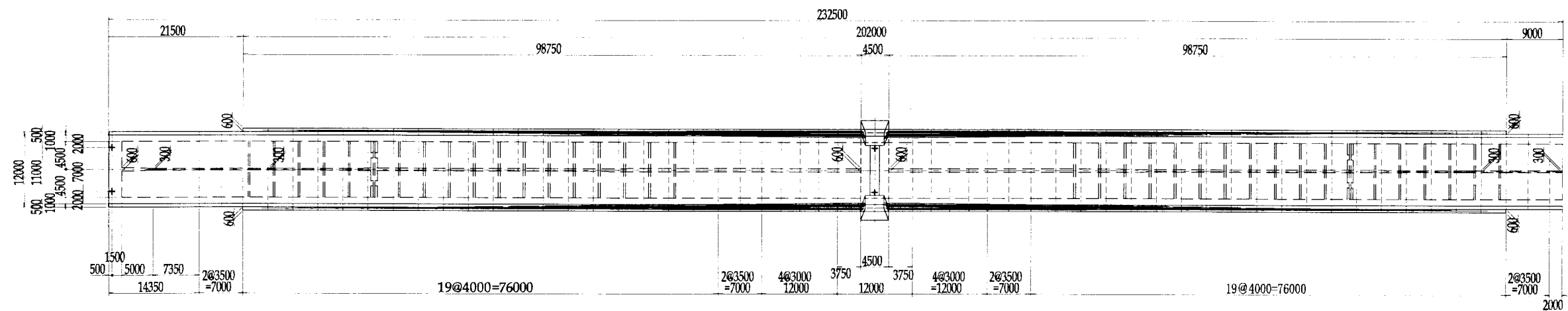
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	DRAWING TITLE	DWG NO.
THE FEASIBILITY STUDY ON THE PROPOSED KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER BETWEEN BOTSWANA AND ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF WORKS, TRANSPORT AND COMMUNICATIONS REPUBLIC OF BOTSWANA MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA	NIPPON KOEI CO.,LTD. ORIENTAL CONSULTANTS CO.,LTD	GENERAL VIEW OF MAIN BRIDGE	BR/001


SUPERSTRUCTURE (1)

ELEVATION SCALE 1:400



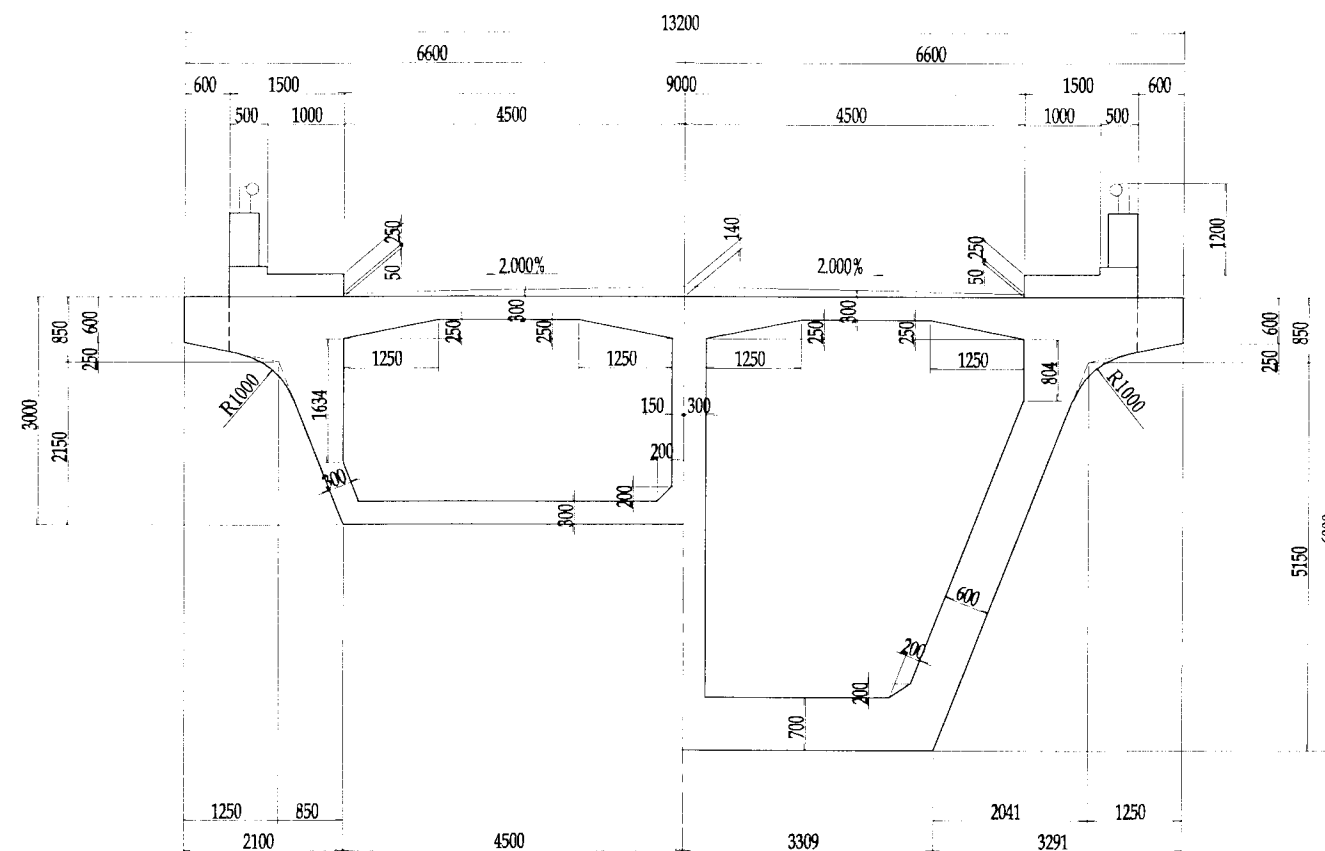
PLAN SCALE 1:400



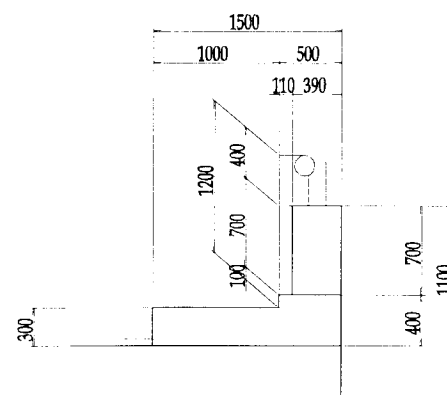
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	DRAWING TITLE	DWG NO.
THE FEASIBILITY STUDY ON THE PROPOSED KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER BETWEEN BOTSWANA AND ZAMBIA	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF WORKS, TRANSPORT AND COMMUNICATIONS REPUBLIC OF BOTSWANA MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA	NIPPON KOEI CO.,LTD. ORIENTAL CONSULTANTS CO.,LTD	SUPERSTRUCTURE (1)	BR/002

SUPERSTRUCTURE (2)

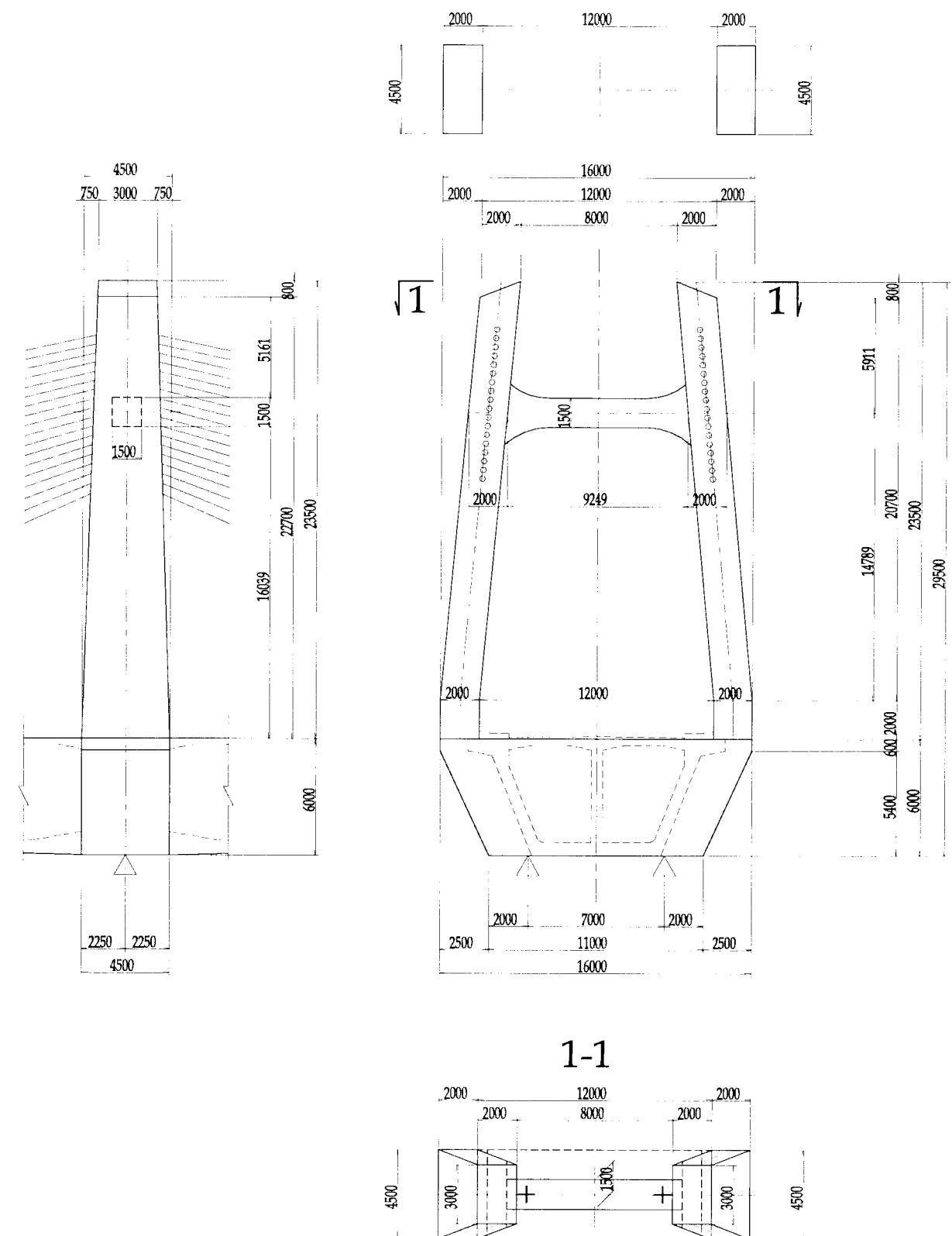
CROSS SECTION SCALE 1:50




DETAIL OF CONCRETE BARRIER SCALE 1:30



PYLON SCALE 1:150

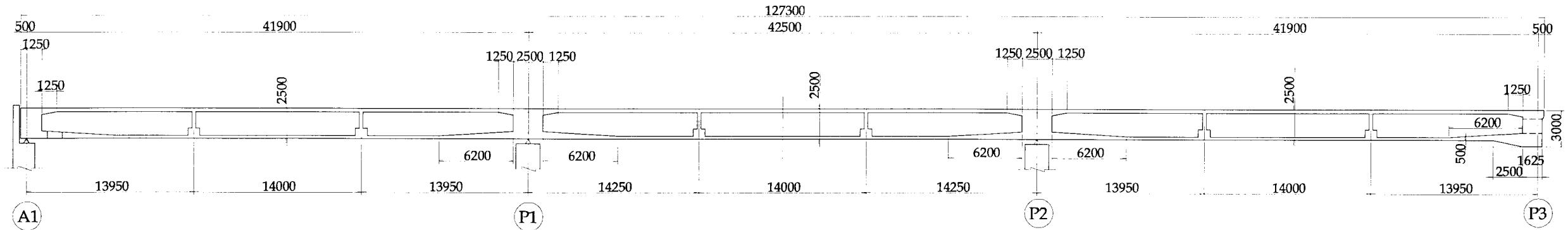


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	DRAWING TITLE	DWG NO.
THE FEASIBILITY STUDY ON THE PROPOSED KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER BETWEEN BOTSWANA AND ZAMBIA	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF WORKS, TRANSPORT AND COMMUNICATIONS REPUBLIC OF BOTSWANA MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA	NIPPON KOEI CO.,LTD. ORIENTAL CONSULTANTS CO.,LTD	SUPERSTRUCTURE (2)	BR/003

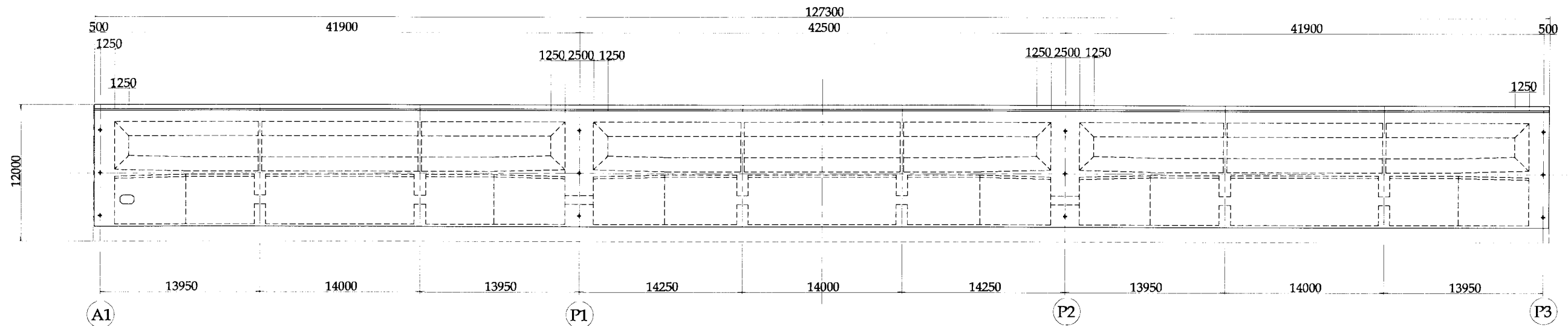
SUPERSTRUCTURE (3)

APPROACH BRIDGE

ELEVATION SCALE 1:400

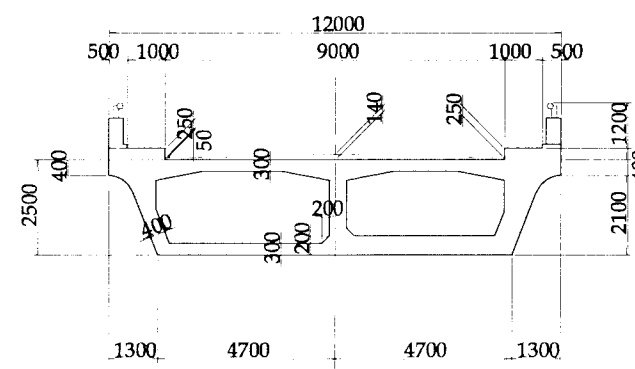


PLAN SCALE 1:400



TYPICAL SECTION SCALE 1:200

AT MIDDLE OF SPAN AT PIER

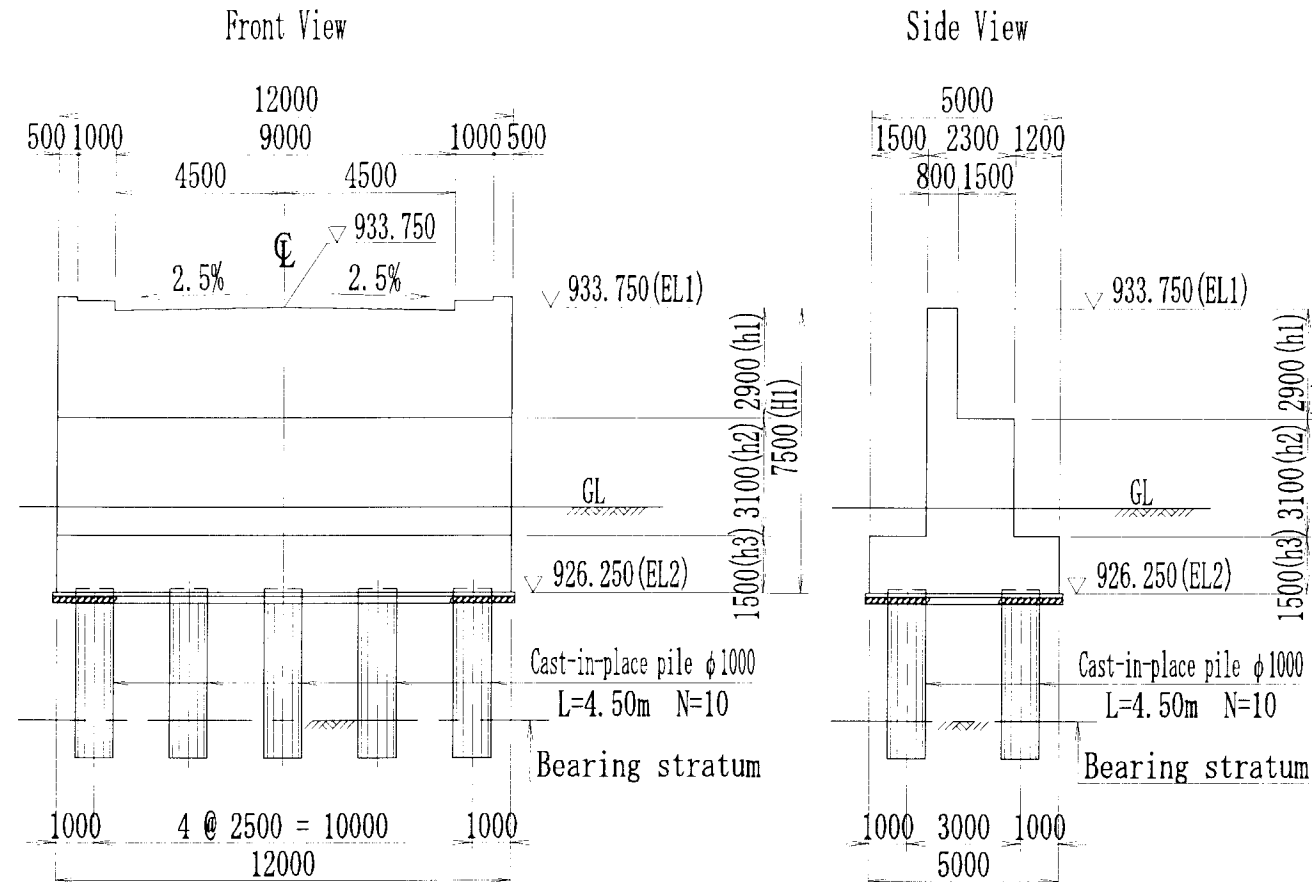


PROJECT NAME THE FEASIBILITY STUDY ON THE PROPOSED KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER BETWEEN BOTSWANA AND ZAMBIA	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY MINISTRY OF WORKS, TRANSPORT AND COMMUNICATIONS REPUBLIC OF BOTSWANA MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA	JICA STUDY TEAM NIPPON KOEI CO.,LTD. ORIENTAL CONSULTANTS CO.,LTD	DRAWING TITLE SUPERSTRUCTURE (3)	DWG NO. BR/004
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SUBSTRUCTURE (1)

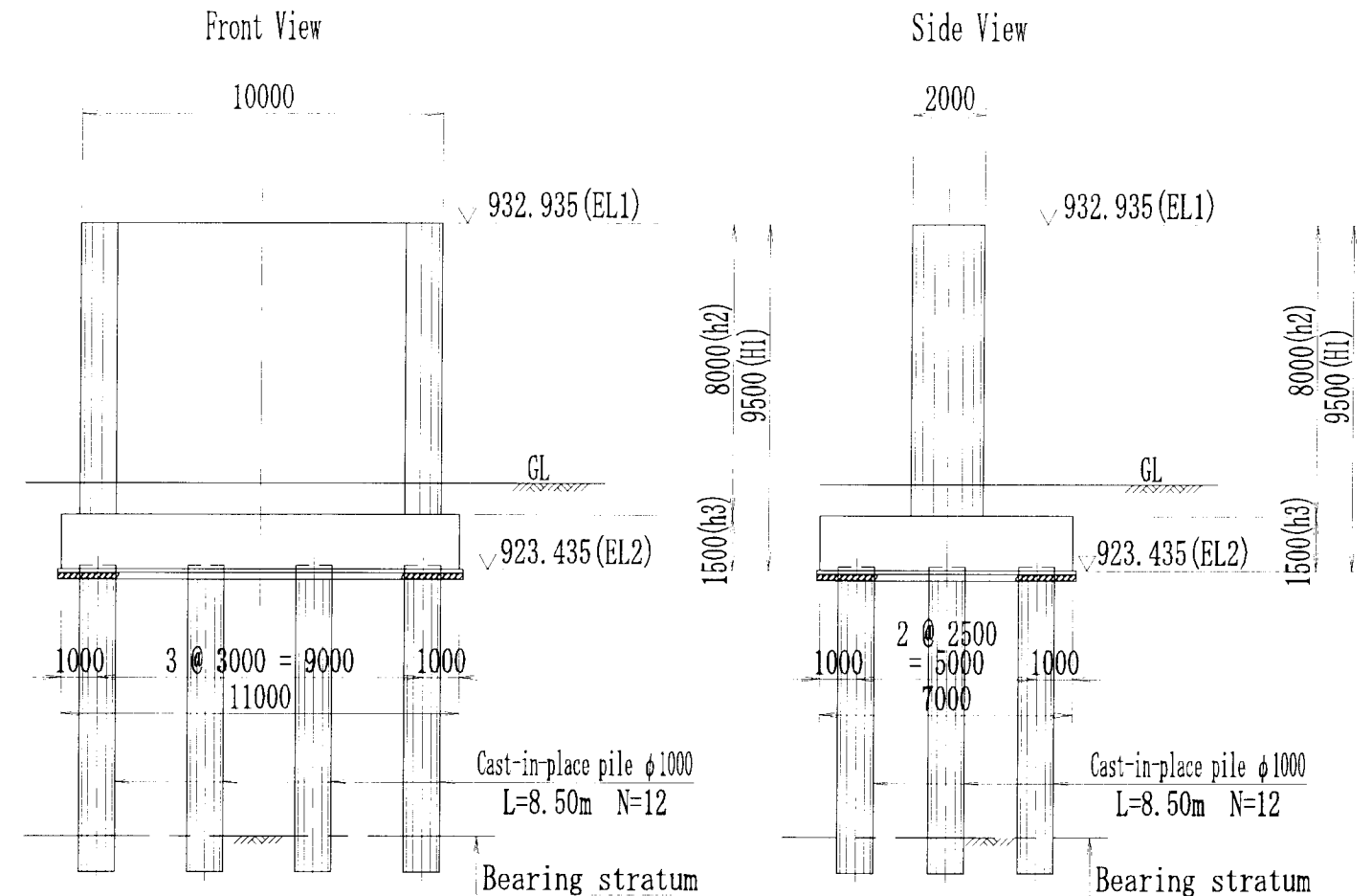
A 1 (A 2)

Scale=1:200



P 7 (P 1 · P 2 · P 8)

Scale=1:200



Dimension

	A 1	A 2
①proposed height (PH)	933.750	933.750
②Superstructure height	—	—
③top height of pier (EL 1)	933.750	933.750
④ground height (GL)	928.500	928.700
⑤structure height (H 1)	7.500	7.500
⑥pier height (h 2)	3.100	3.100
⑦pile cap height (h 3)	1.500	1.500
⑧pile cap bottom height (EL 2)	926.250	926.250
⑨pile length (m)	4.500	11.500
⑩number of piles (each)	10.0	10.0
⑪diameter of pile (m)	1.000	1.000
⑫pile toe height	921.850	914.850

Dimension

	P 1	P 2	P 7	P 8
①proposed height (PH)	934.813	935.875	935.875	934.813
②Superstructure height	2.905	2.940	2.940	2.905
③top height of pier (EL 1)	931.908	932.935	932.935	931.908
④ground height (GL)	928.200	927.800	925.800	927.400
⑤structure height (H 1)	6.000	7.500	9.500	7.000
⑥pier height (h 2)	4.500	6.000	8.000	5.500
⑦pile cap height (h 3)	1.500	1.500	1.500	1.500
⑧pile cap bottom height (EL 2)	925.908	925.435	923.435	924.908
⑨pile length (m)	4.500	4.000	8.500	10.000
⑩number of piles (each)	12.0	12.0	12.0	12.0
⑪diameter of pile (m)	1.000	1.000	1.000	1.000
⑫pile toe height	921.508	921.535	915.035	915.008

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	DRAWING TITLE	DWG NO.
THE FEASIBILITY STUDY ON THE PROPOSED KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER BETWEEN BOTSWANA AND ZAMBIA	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINISTRY OF WORKS, TRANSPORT AND COMMUNICATIONS REPUBLIC OF BOTSWANA MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA	NIPPON KOEI CO.,LTD. ORIENTAL CONSULTANTS CO.,LTD	SUBSTRUCTURE (1)	BR/005

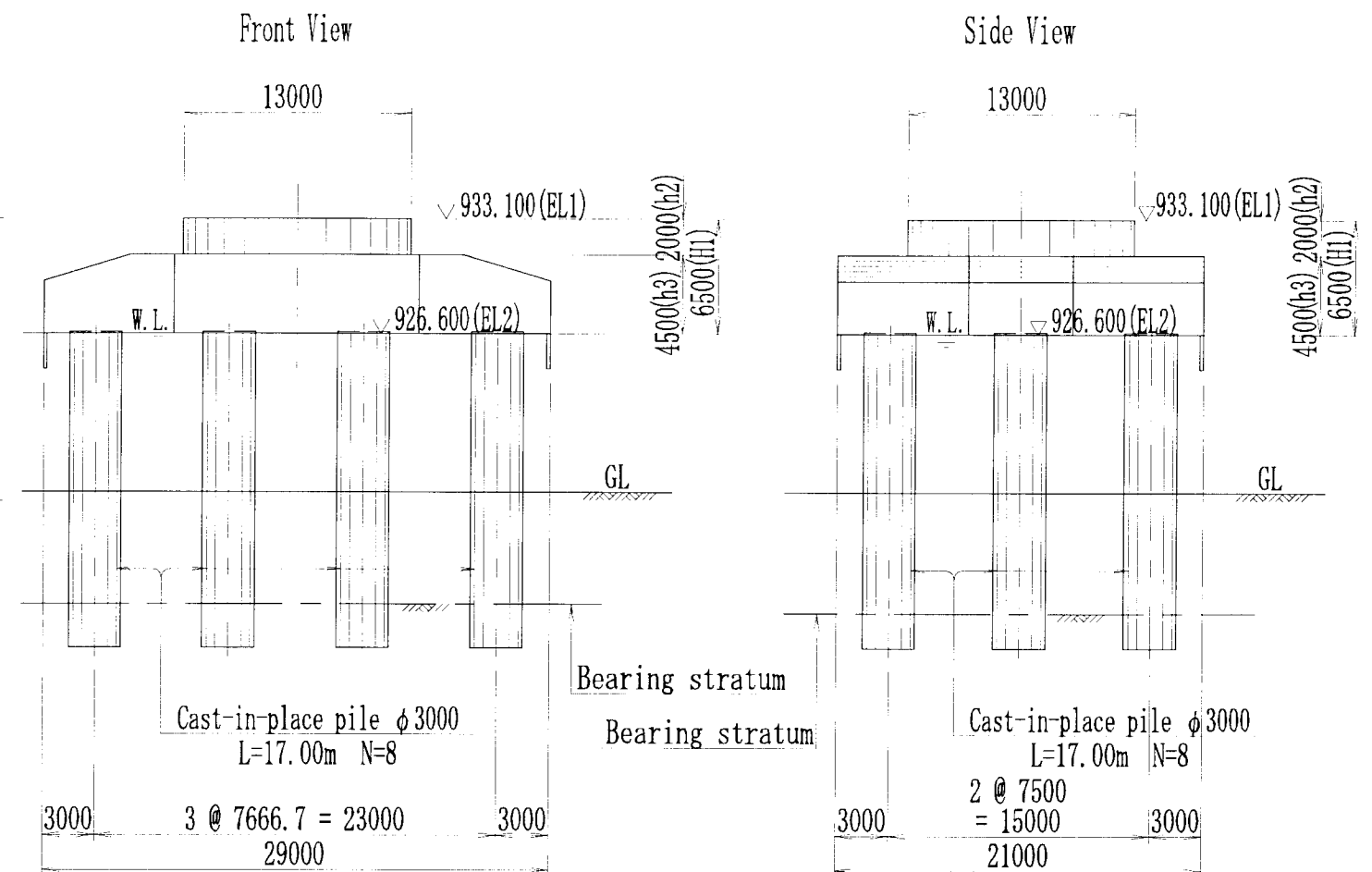
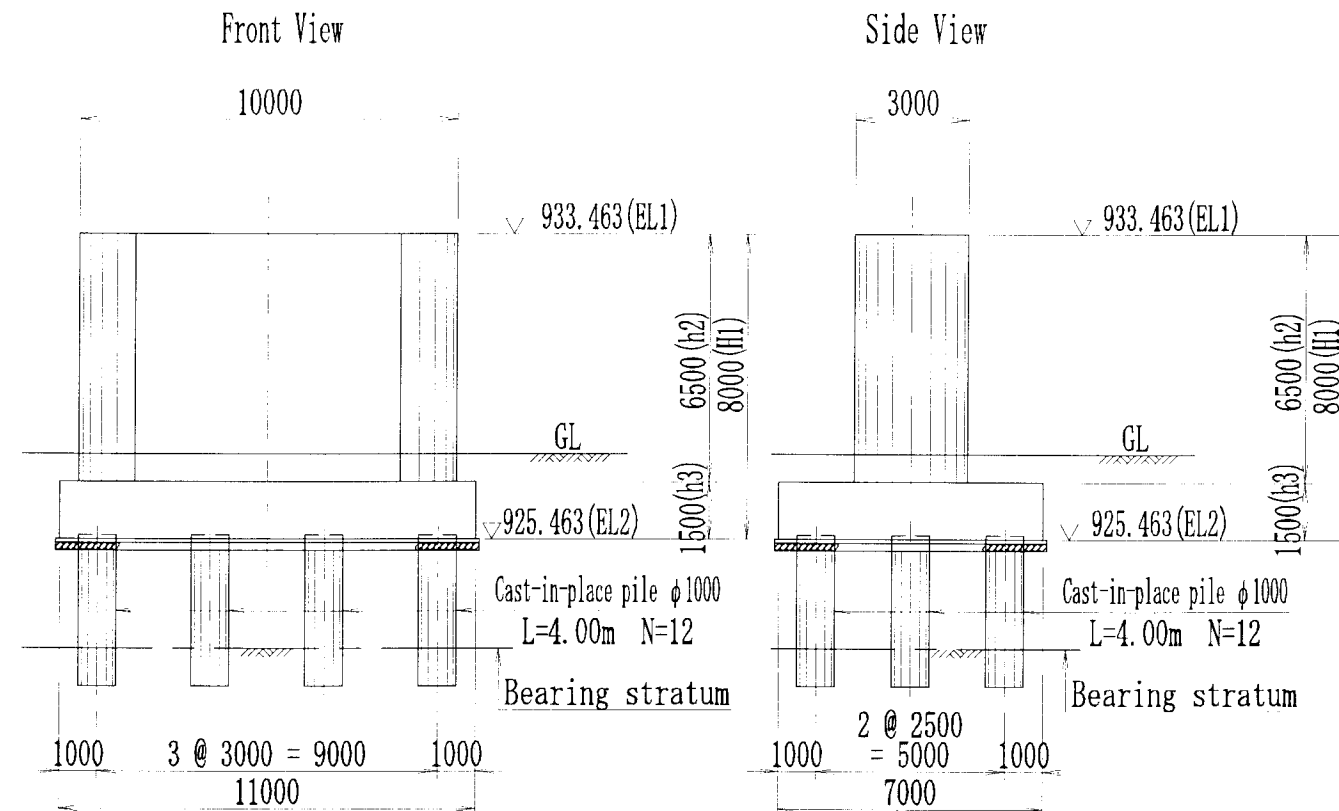
P 3 (P 6)

scale=1:200

SUBSTRUCTURE (2)

P 4 (P 5)

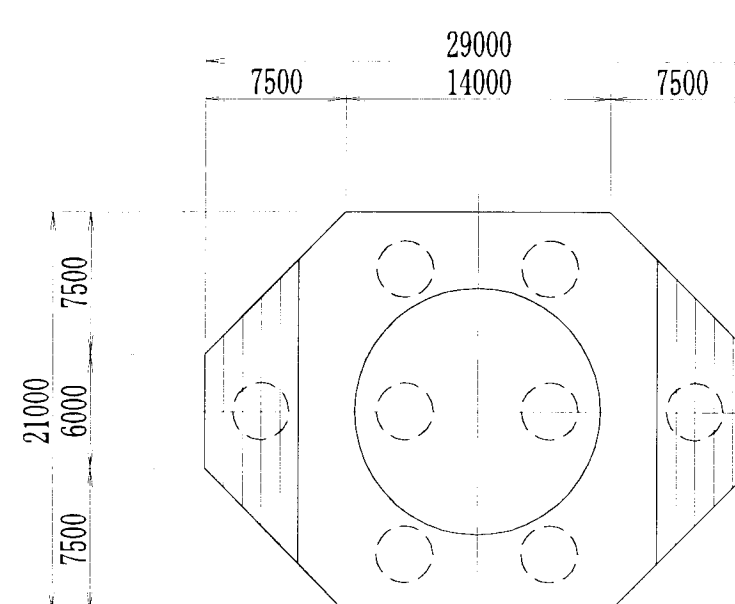
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Dimension

	P 3	P 6
①proposed height (PH)	936.938	936.938
②Superstructure height	3.475	3.475
③top height of pier (EL 1)	933.463	933.463
④ground height (GL)	927.700	925.000
⑤structure height (H1)	8.000	13.500
⑥pier height (h 2)	6.500	12.000
⑦pile cap height (h 3)	1.500	1.500
⑧pile cap bottom height (EL 2)	925.463	919.963
⑨pile length (m)	4.000	5.000
⑩number of piles (each)	12.0	12.0
⑪diameter of pile (m)	1.000	1.000
⑫pile toe height	921.563	915.063

Plan



Dimension

	P 4	P 5
①proposed height (PH)	939.878	939.878
②Superstructure height	6.778	6.778
③top height of pier (EL 1)	933.100	933.100
④ground height (GL)	917.600	917.600
⑤structure height (H1)	6.500	6.500
⑥pier height (h 2)	2.000	2.000
⑦pile cap height (h 3)	4.500	4.500
⑧pile cap bottom height (EL 2)	926.600	926.600
⑨pile length (m)	17.000	19.000
⑩number of piles (each)	8.0	8.0
⑪diameter of pile (m)	3.000	3.000
⑫pile toe height	909.600	907.600

PROJECT NAME

THE FEASIBILITY STUDY ON THE PROPOSED
KAZUNGULA BRIDGE OVER THE ZAMBEZI RIVER
BETWEEN BOTSWANA AND ZAMBIA

IMPLEMENTATION AGENCY

JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY
(JICA)

EXECUTING AGENCY

MINISTRY OF WORKS, TRANSPORT AND
COMMUNICATIONS REPUBLIC OF BOTSWANA
MINISTRY OF WORKS AND SUPPLY REPUBLIC OF ZAMBIA

JICA STUDY TEAM

NIPPON KOEI CO.,LTD.
ORIENTAL CONSULTANTS CO.,LTD

DRAWING TITLE

SUBSTRUCTURE (2)

DWG NO.

BR/006