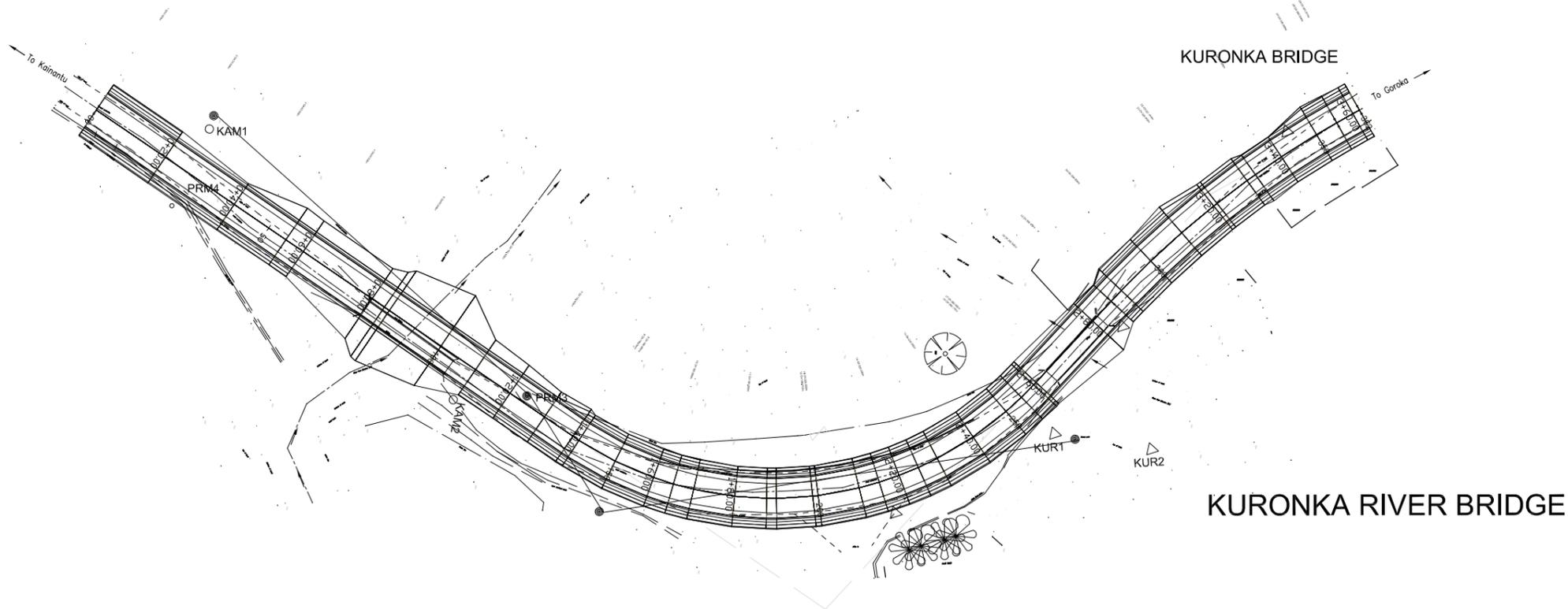
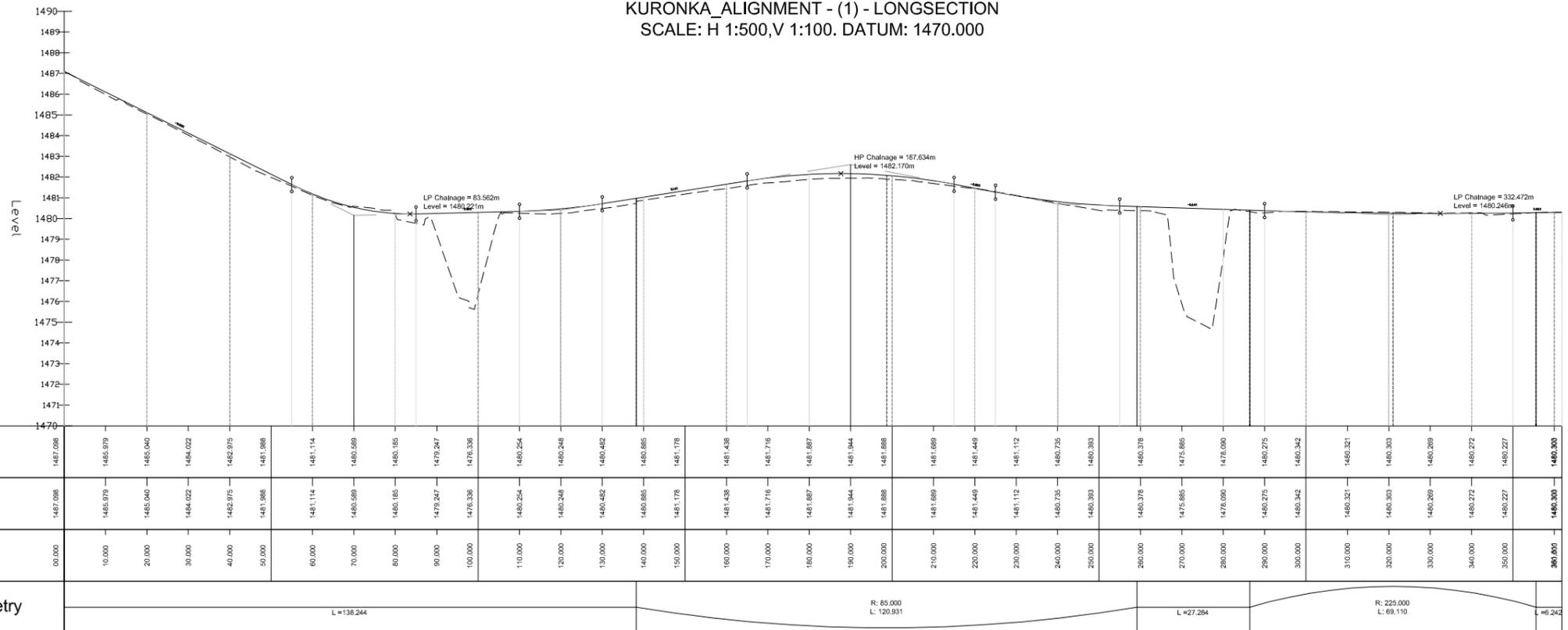


36. Kuronka River Bridge

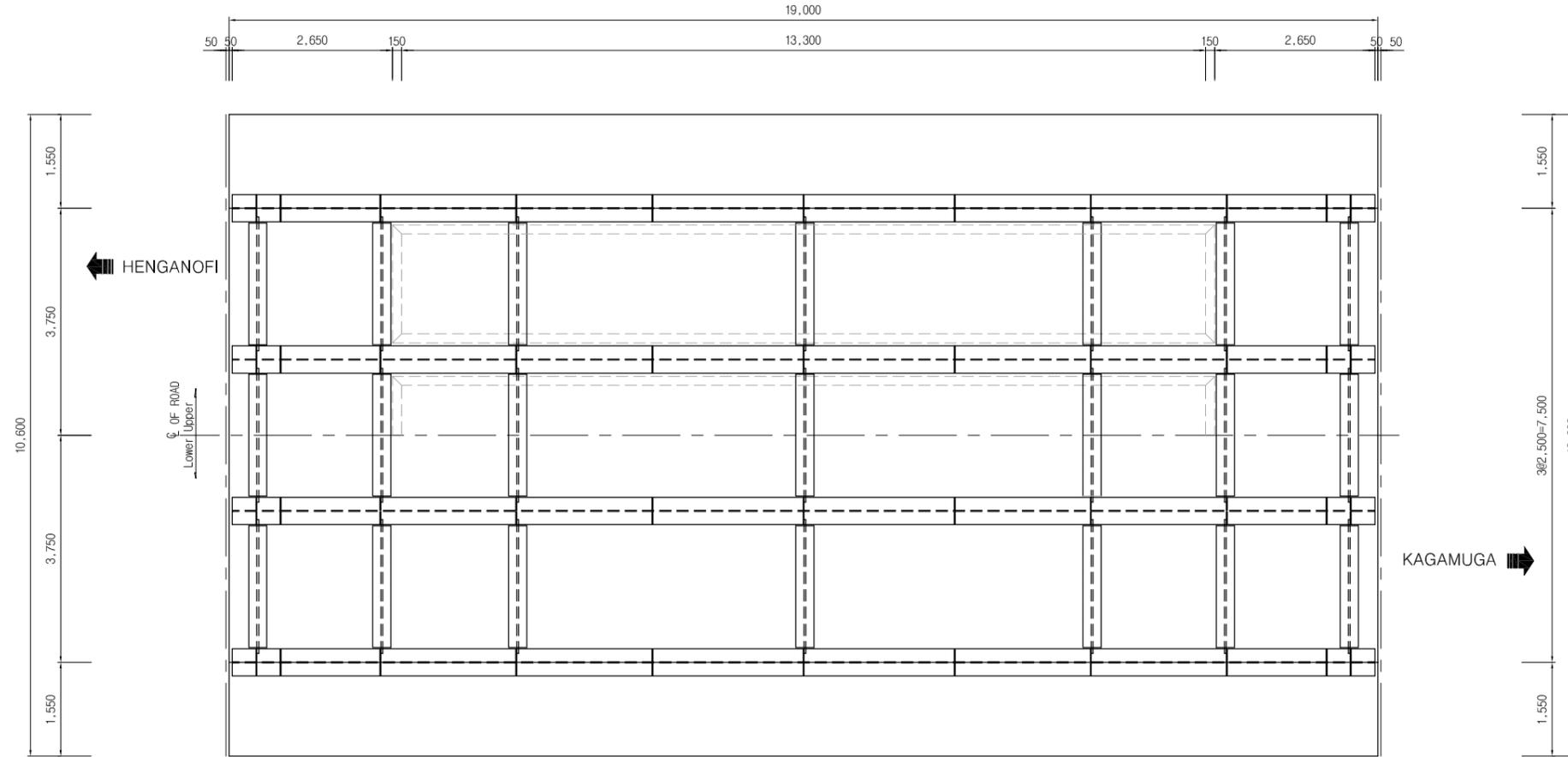


KURONKA_ALIGNMENT - (1) - LONGSECTION
SCALE: H 1:500, V 1:100. DATUM: 1470.000

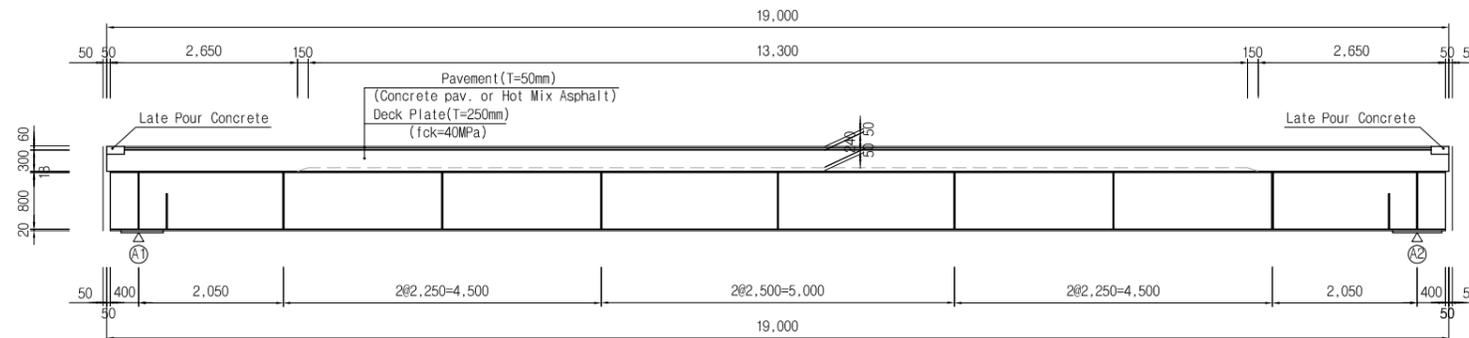


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE		
					Date	PEC	D. VALLIKAY		H 1:1500 V 1:300	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM		CHECKED	APPROVED	SHEET OF	PROJECT No.	AUTOCAD No.	DRAWING TITLE
				HORIZONTAL DATUM	A. WAZOB		PRINCIPAL ENGINEER					PLAN AND PROFILE SHEET - KURONKA
					SURVEY BOOK Nos	PRINCIPAL	DESIGNED	EXECUTIVE ENGINEER				PAPUA NEW GUINEA
						Date	CHECKED	SECRETARY				DEPARTMENT OF WORKS
							I. JANG					DRAWING No. A1/ AR023

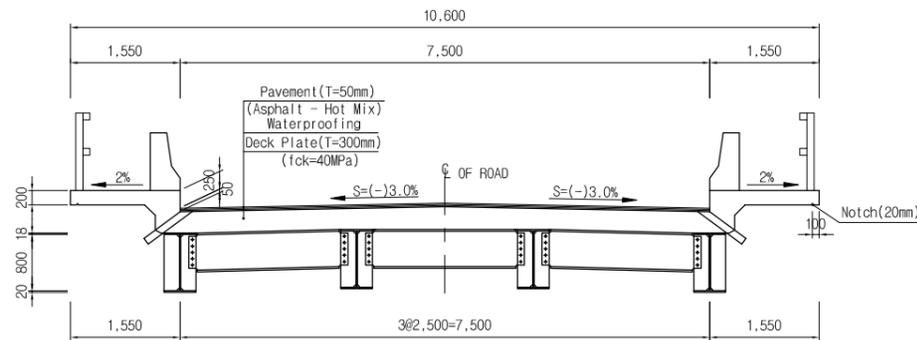
PLAN VIEW



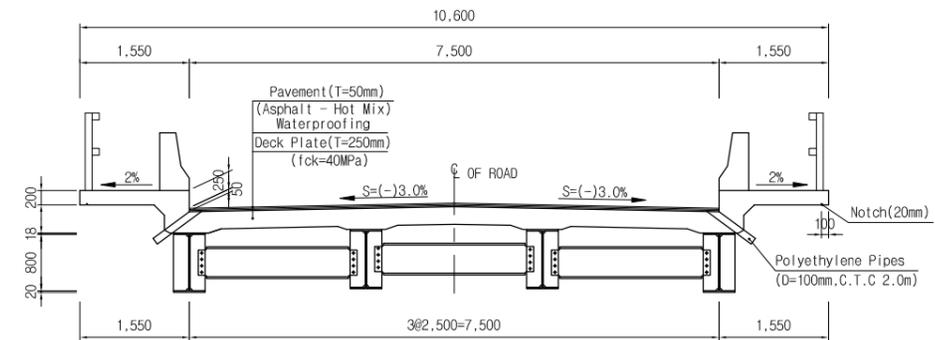
LONGITUDINAL SECTION



END PART SECTION

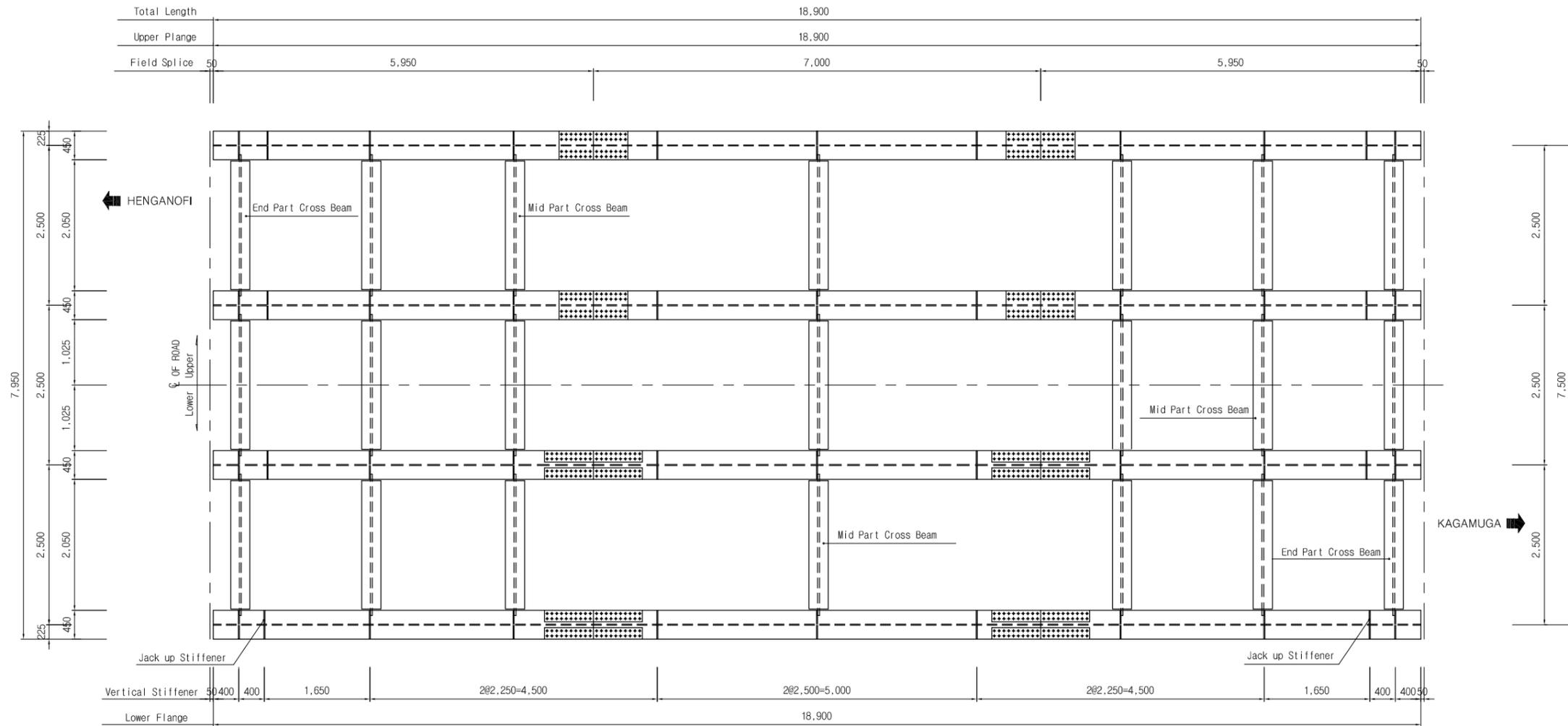


MID PART SECTION

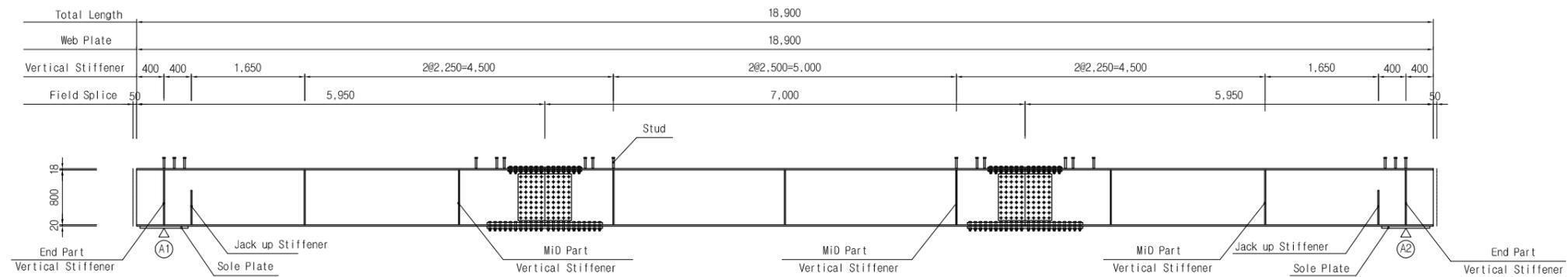


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT		DRAWN	RECOMMENDED	SCALES	PROJECT TITLE
					Date			M.M. Kim			
					VERTICAL DATUM			CHECKED	PRINCIPAL ENGINEER	PROJECT No.	DRAWING TITLE
				Date	Y.J. Kim			PROJECT ENGINEER			
					HORIZONTAL DATUM			DESIGNED	SECRETARY	SHEET OF	PAPUA NEW GUINEA
				Date	I.H. Jang			EXECUTIVE ENGINEER			
					SURVEY BOOK Nos			CHECKED	EXECUTIVE ENGINEER	PROJECT No.	DRAWING No.
				Date	E.J. Oh			SECRETARY			

PLAN VIEW

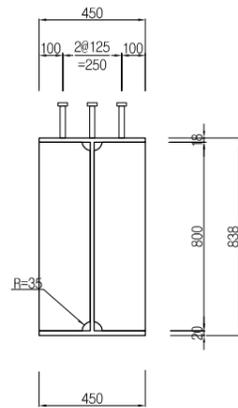


LONGITUDINAL SECTION



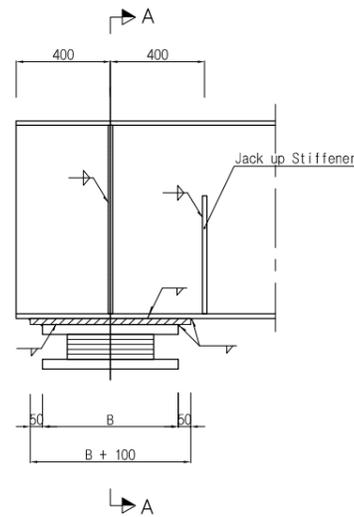
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE		
					VERTICAL DATUM		M.M. Kim	PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER		1:40	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK	
HORIZONTAL DATUM		Y.J. Kim	EXECUTIVE ENGINEER SECRETARY	PROJECT No.	DRAWING TITLE							
SURVEY BOOK Nos		Date			I.H. Jang	SHEET OF	AUTOCAD No.	STEEL GIRDER - GENERAL LAYOUT				
		E.J. Oh			PAPUA NEW GUINEA DEPARTMENT OF WORKS							
										DRAWING No.	A1/ NB112	

STEEL GIRDER DETAIL

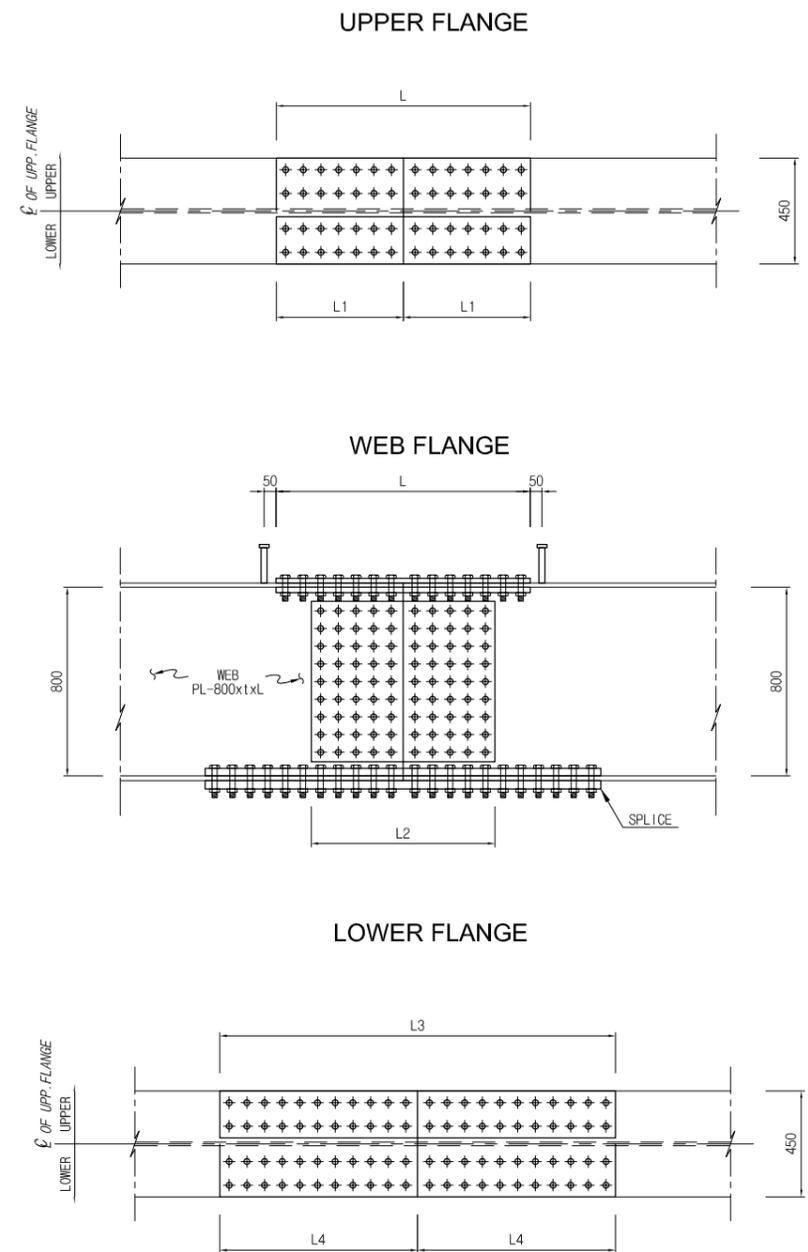


(Per 1ea)
 PL-450X18X18,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-800X16X18,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X20X18,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

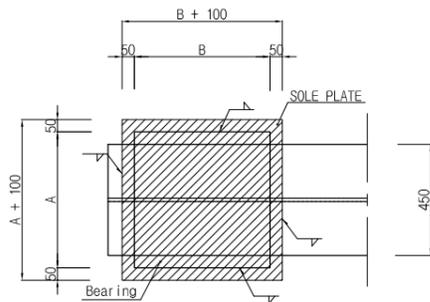
END PART DETAIL



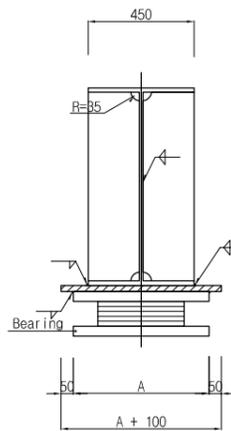
SPLICE DETAILS



END PART PLAN VIEW

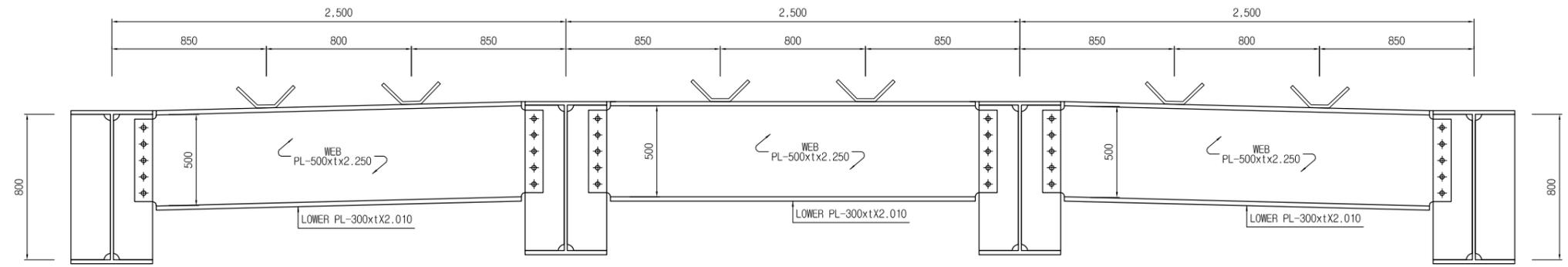


SECTION A-A

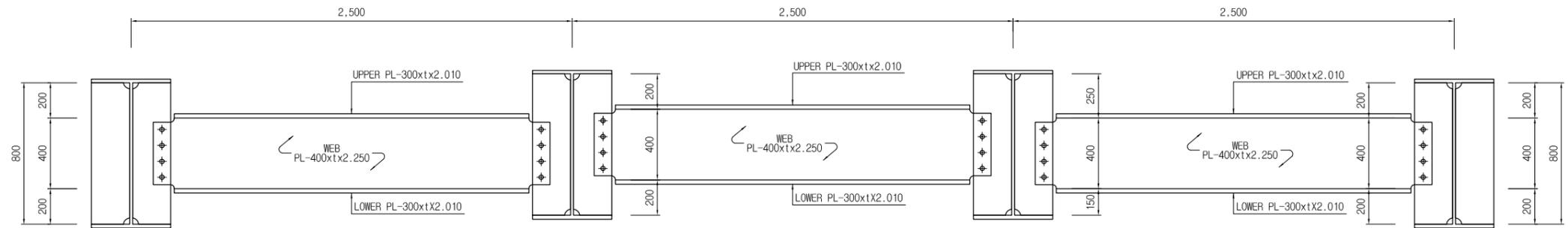


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC 	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK				
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS		
					HORIZONTAL DATUM		DESIGNED I.H. Jang					APPROVED	SECRETARY	PAPUA NEW GUINEA
					SURVEY BOOK Nos		CHECKED E.J. Oh			EXECUTIVE ENGINEER	SHEET OF			PROJECT No.

END CROSS BEAM AT ABUTMENT



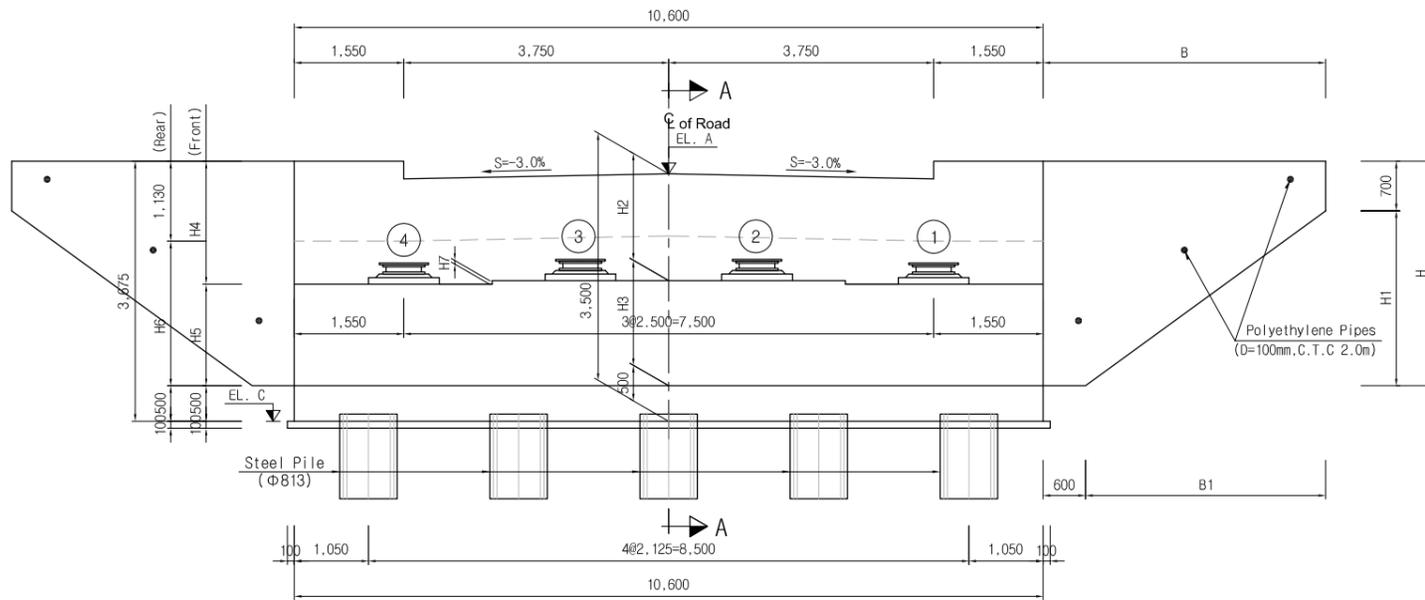
TYPICAL INTERMEDIATE CROSS BEAM DETAILS



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE DIAPHRAGM DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. DEPARTMENT OF WORKS A1/ NB114	
				SURVEY BOOK Nos	PRINCIPAL Date		CHECKED E.J. Oh				EXECUTIVE ENGINEER	SECRETARY

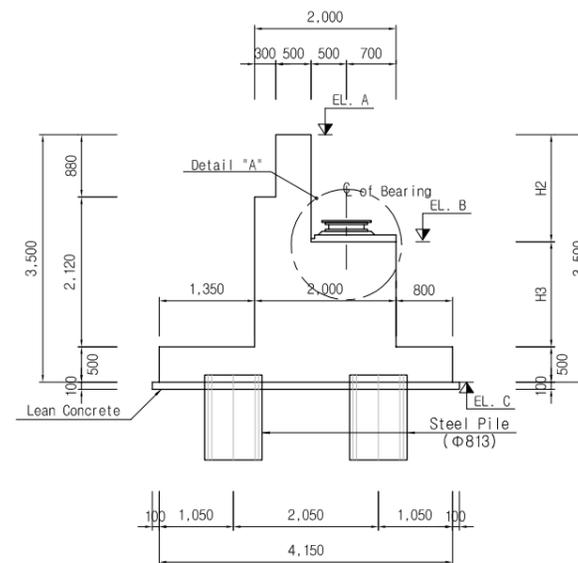
FRONT VIEW

S=1:50



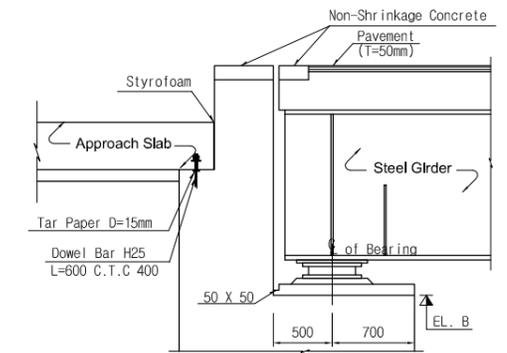
SECTION A-A

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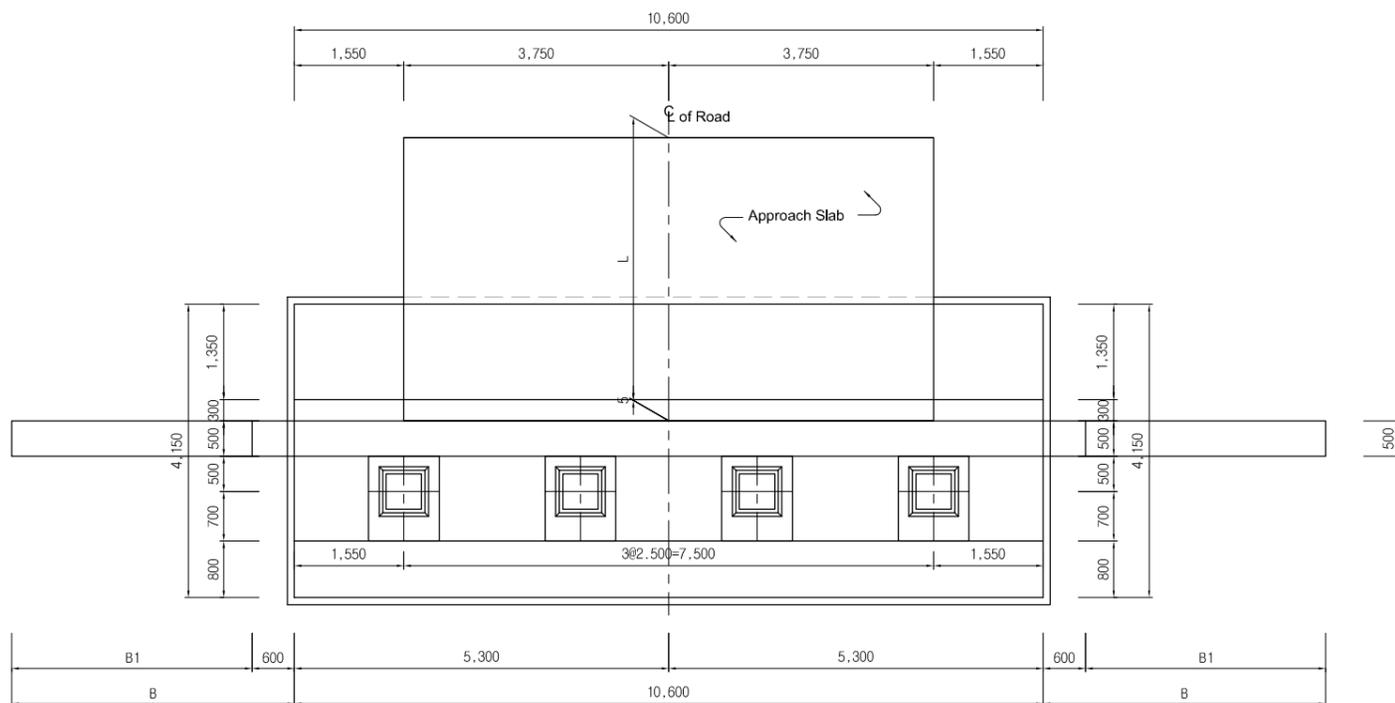
DETAIL "A"

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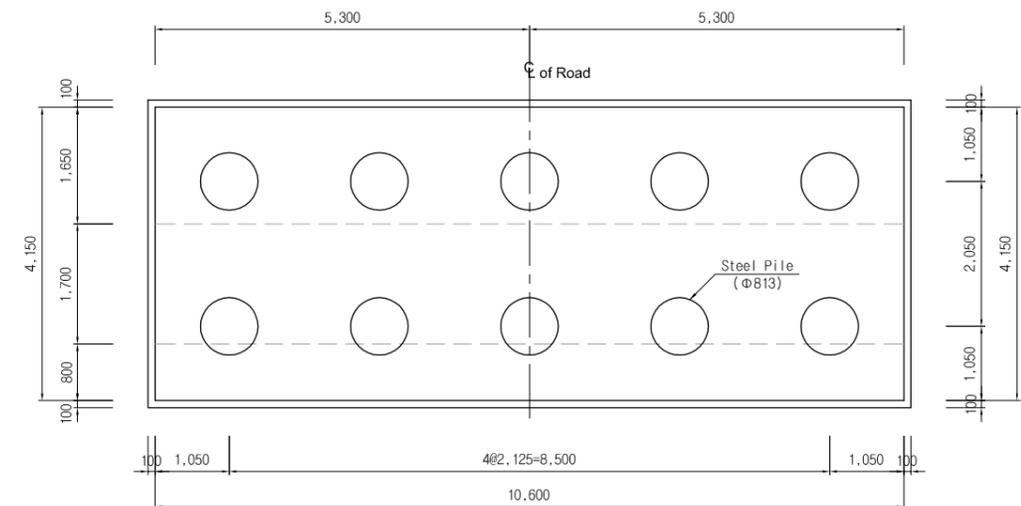
PLAN VIEW

S=1:50



FOUNDATION PLAN VIEW

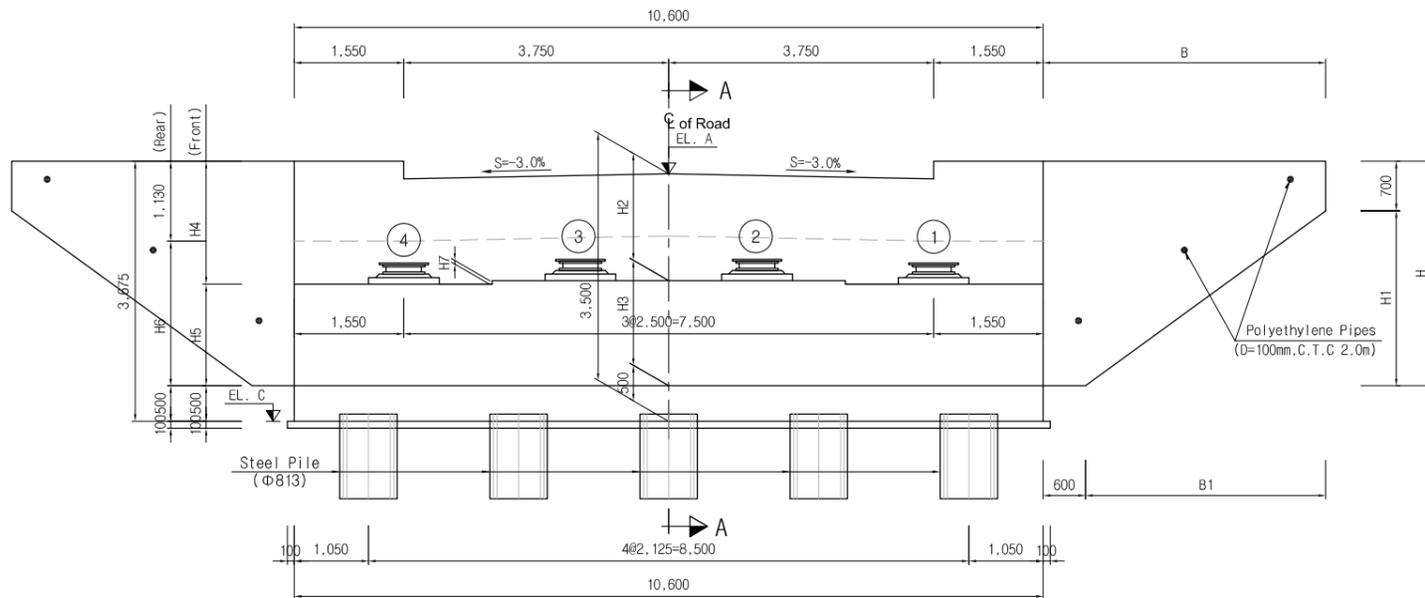
S=1:50



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES AS SHOWN	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK
					VERTICAL DATUM Date		CHECKED Y.J. Kim			
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER			

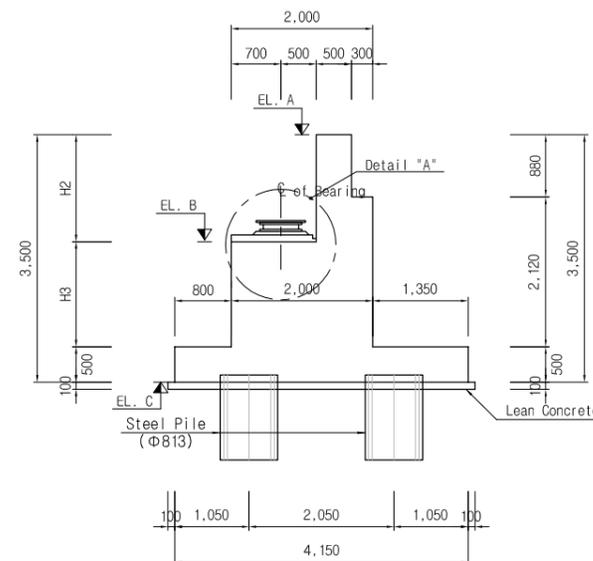
FRONT VIEW

S=1:50



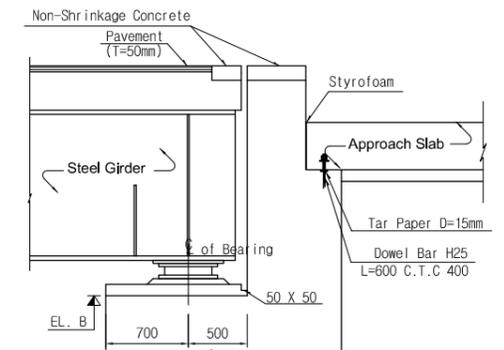
SECTION A-A

S=1:50



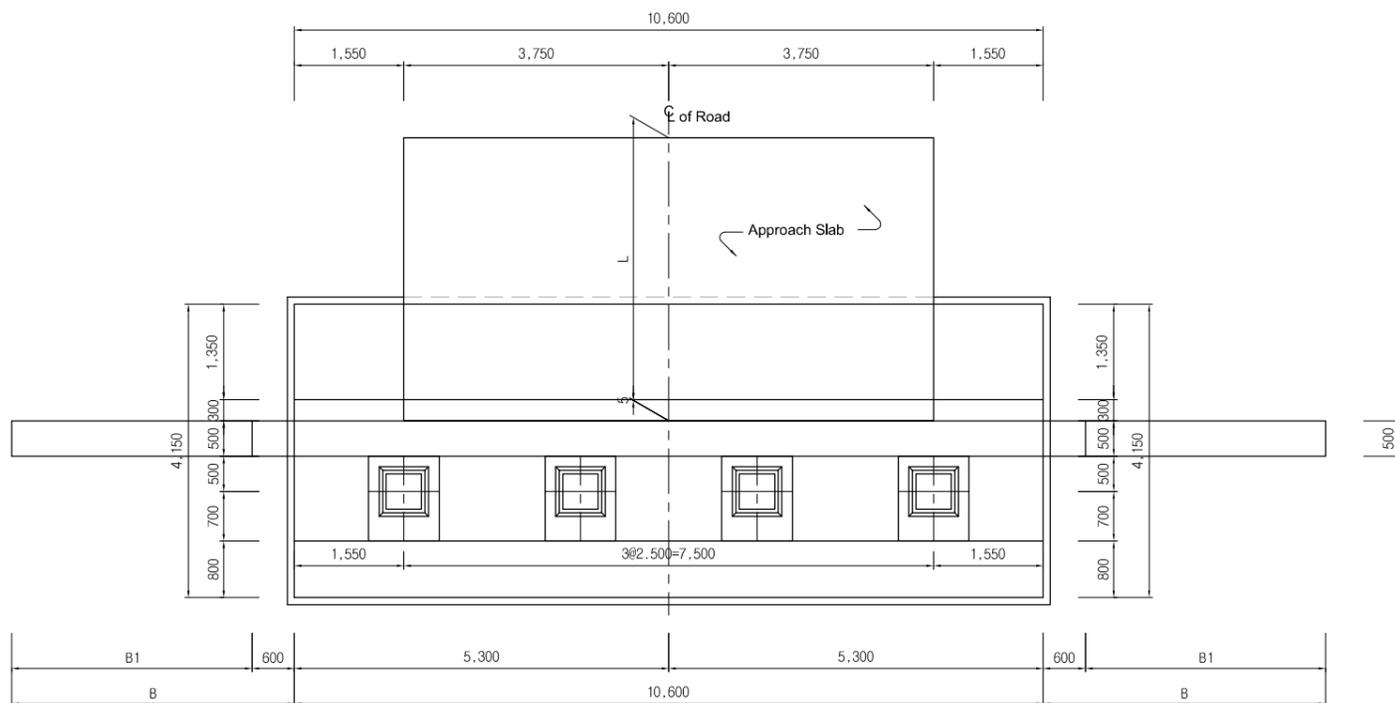
DETAIL "A"

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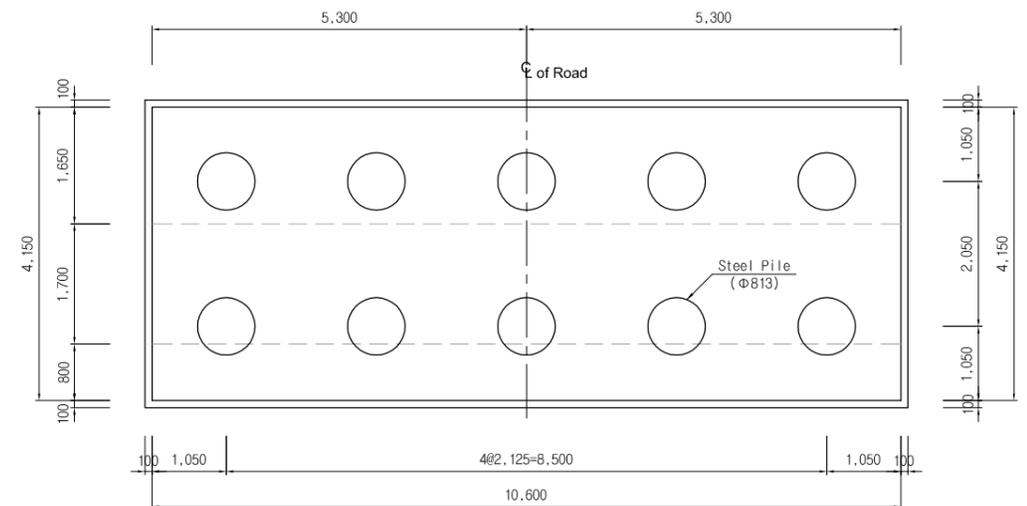
PLAN VIEW

S=1:50



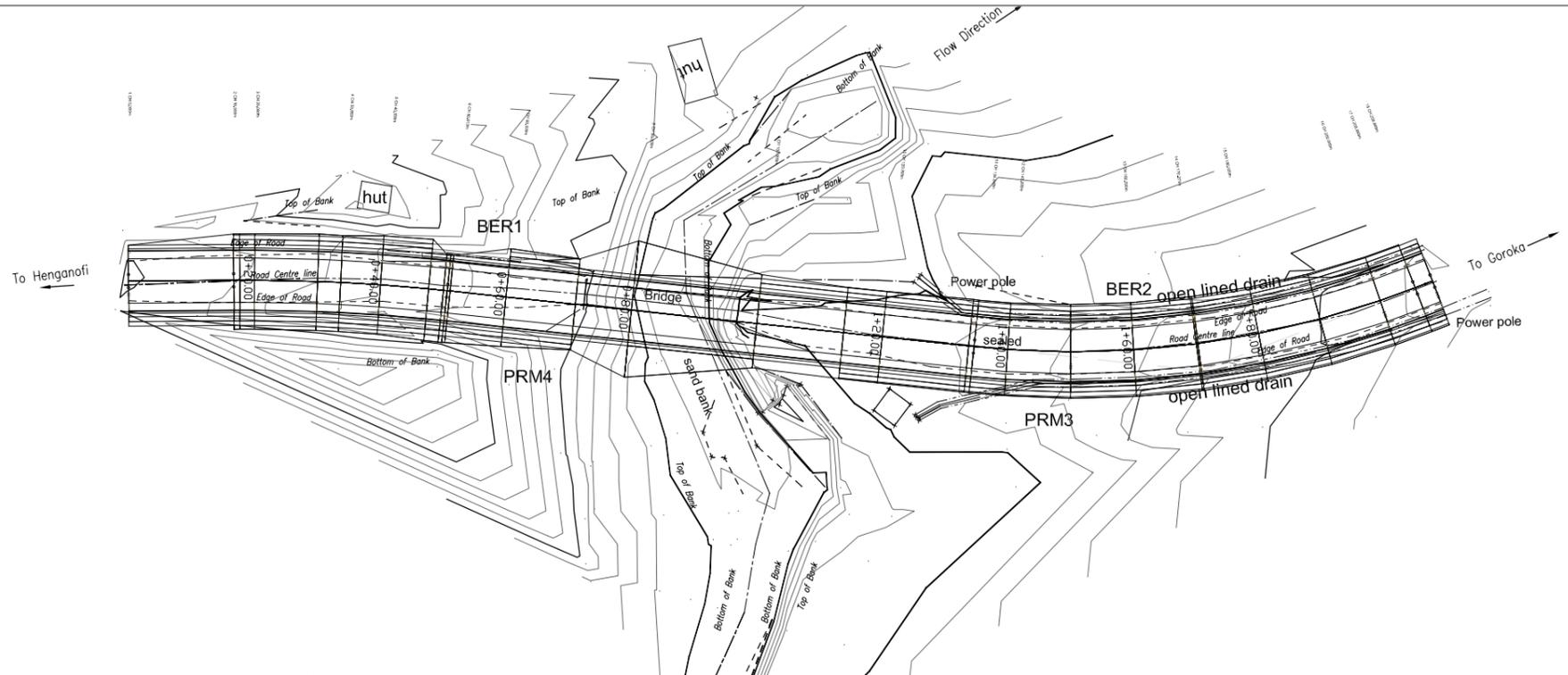
FOUNDATION PLAN VIEW

S=1:50

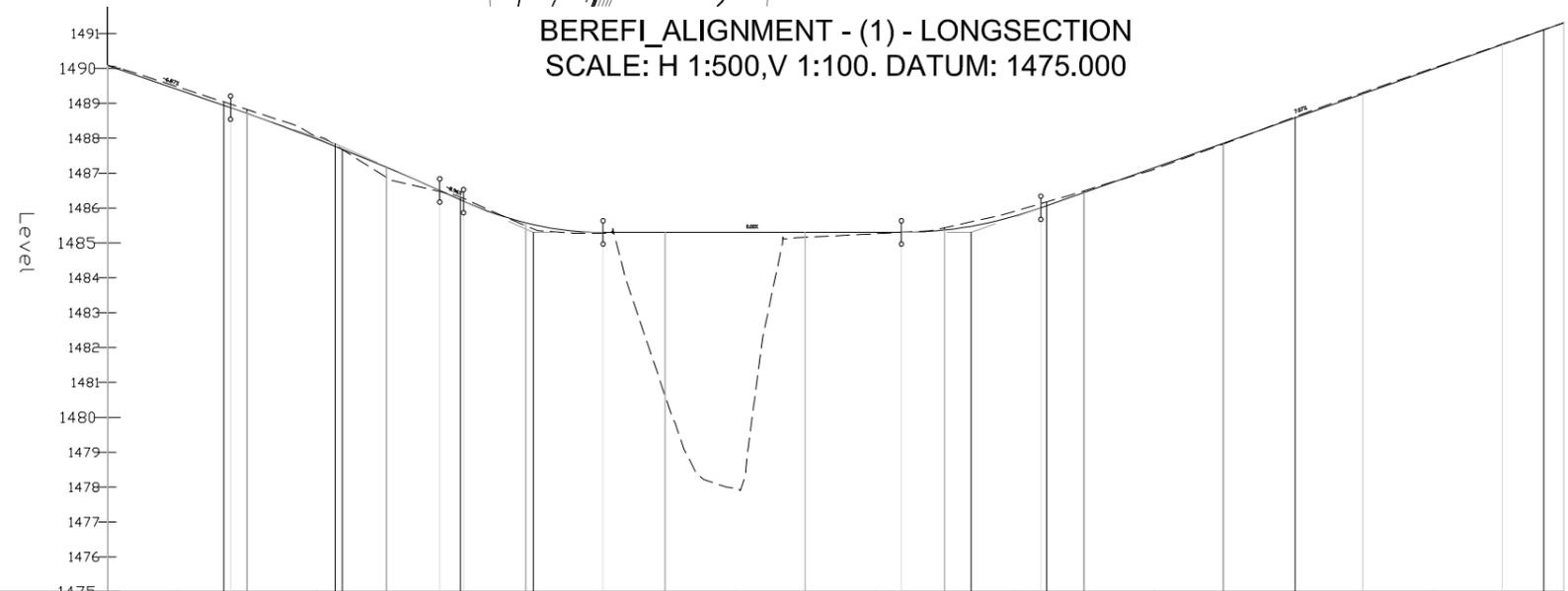


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES AS SHOWN	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE ABUTMENT - GENERAL LAYOUT (A2)	
					HORIZONTAL DATUM	PRINCIPAL 	DESIGNED I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	DRAWING No. DEPARTMENT OF WORKS A1/ NB116
					SURVEY BOOK Nos		EXECUTIVE ENGINEER E.J. Oh	SECRETARY					

37. Berefi River Bridge



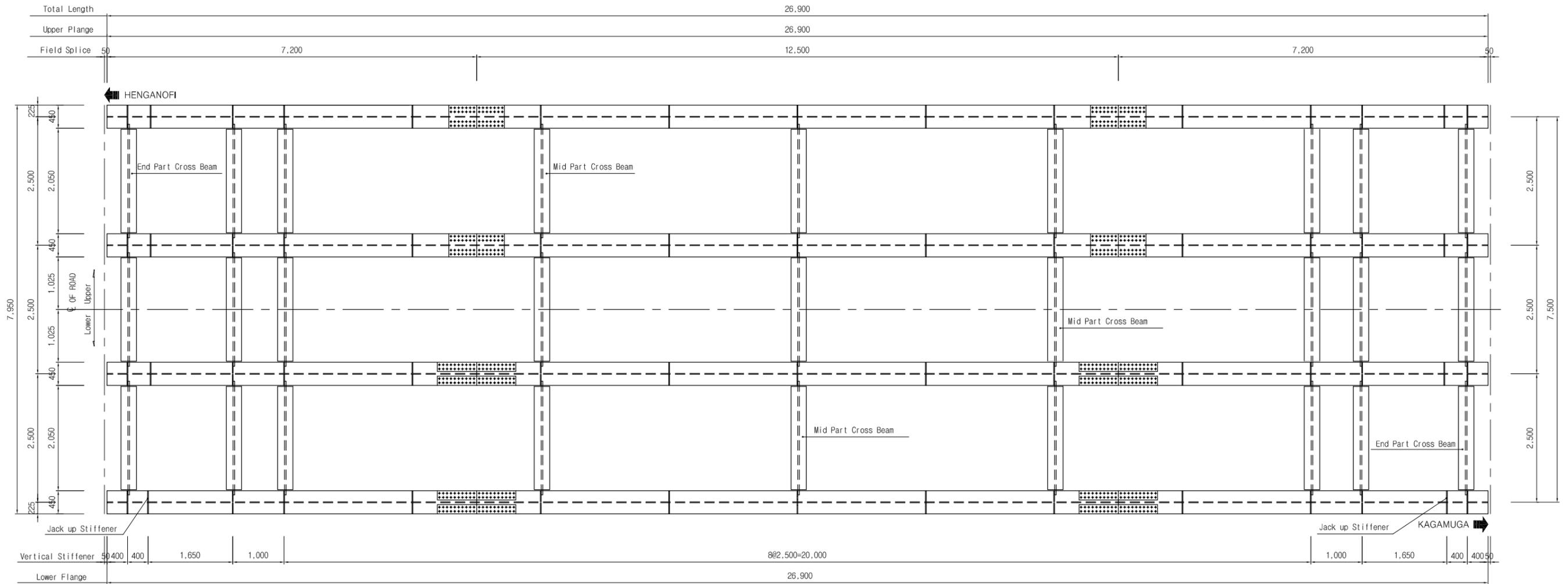
BEREF1_ALIGNMENT - (1) - LONGSECTION
SCALE: H 1:500, V 1:100. DATUM: 1475.000



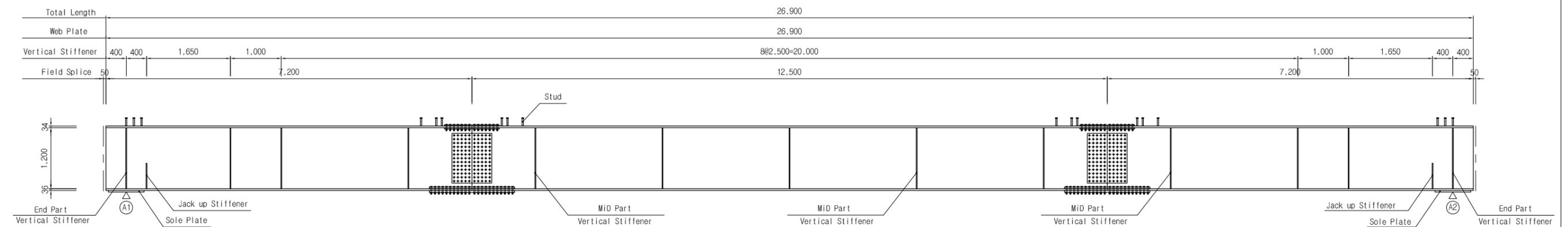
Proposed Levels	1490.088	1489.476	1488.826	1488.059	1486.873	1486.385	1485.490	1485.277	1480.592	1477.976	1485.162	1485.262	1485.435	1485.902	1486.491	1487.105	1487.833	1488.592	1489.309	1490.005	1490.701	1491.313
Existing Levels	1490.088	1489.476	1488.826	1488.059	1486.873	1486.385	1485.490	1485.277	1480.592	1477.976	1485.162	1485.262	1485.435	1485.902	1486.491	1487.105	1487.833	1488.592	1489.309	1490.005	1490.701	1491.313
Chainage	00.000					50.000					100.000					150.000					200.000	206.849
Horizontal Geometry	L = 16.693		R: 300.000 L: 33.919				L = 84.035						R: 150.000 L: 71.245				L = 2.965					

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					VERTICAL DATUM	 	D. VALLIKAY	PRINCIPAL ENGINEER					DRAWING TITLE PLAN AND PROFILE SHEET - BEREF1
					HORIZONTAL DATUM		A. WAZOB						
					SURVEY BOOK Nos	PRINCIPAL	I. JANG	EXECUTIVE ENGINEER					
DEPARTMENT OF WORKS										A1/	AR024		

PLAN VIEW

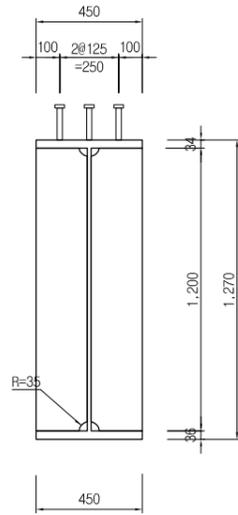


LONGITUDINAL SECTION



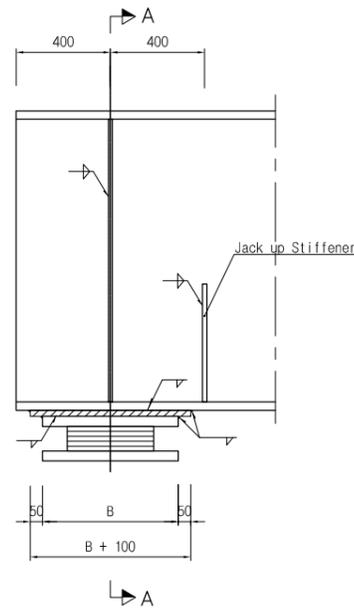
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES		PROJECT TITLE		
					SURVEY BOOK Nos	PEC	M.M. Kim		1:40	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					Date		CHECKED	PROJECT ENGINEER	PRINCIPAL ENGINEER	SHEET OF	PROJECT No.	AUTOCAD No.	DRAWING TITLE
					VERTICAL DATUM		Y.J. Kim						
					HORIZONTAL DATUM		DESIGNED	APPROVED		PAPUA NEW GUINEA	DEPARTMENT OF WORKS	DRAWING No.	REV.
					SURVEY BOOK Nos		I.H. Jang						
					Date		CHECKED	EXECUTIVE ENGINEER	SECRETARY				
							E.J. Oh						

STEEL GIRDER DETAIL

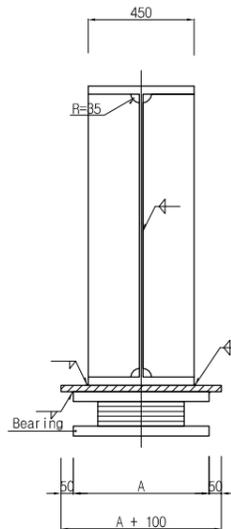


(Per 1ea)
 PL-450X34X26,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-1,200X16X26,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X36X26,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

END PART DETAIL

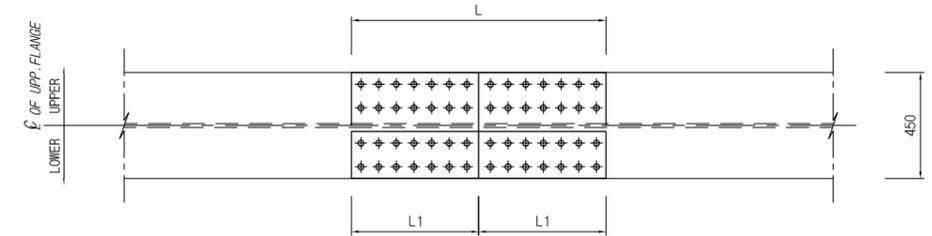


SECTION A-A

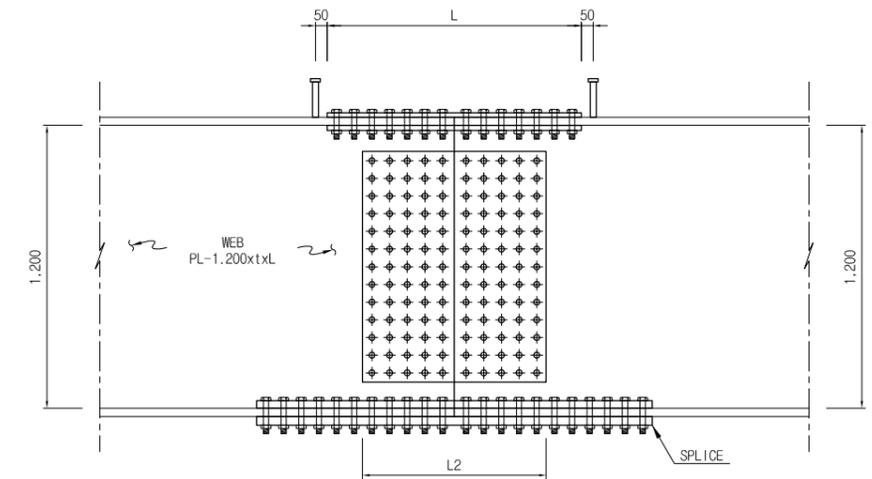


SPLICE DETAILS

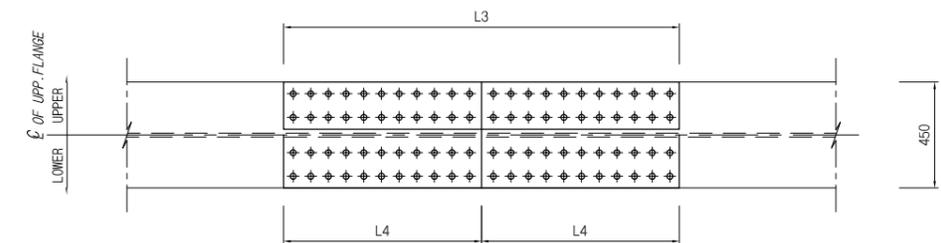
UPPER FLANGE



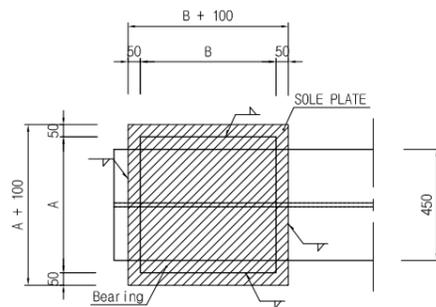
WEB FLANGE



LOWER FLANGE

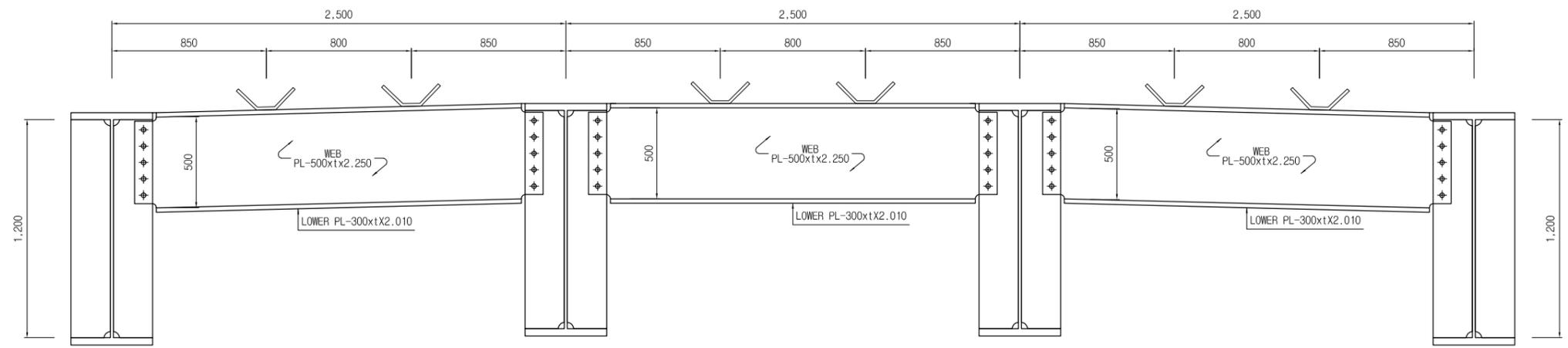


END PART PLAN VIEW

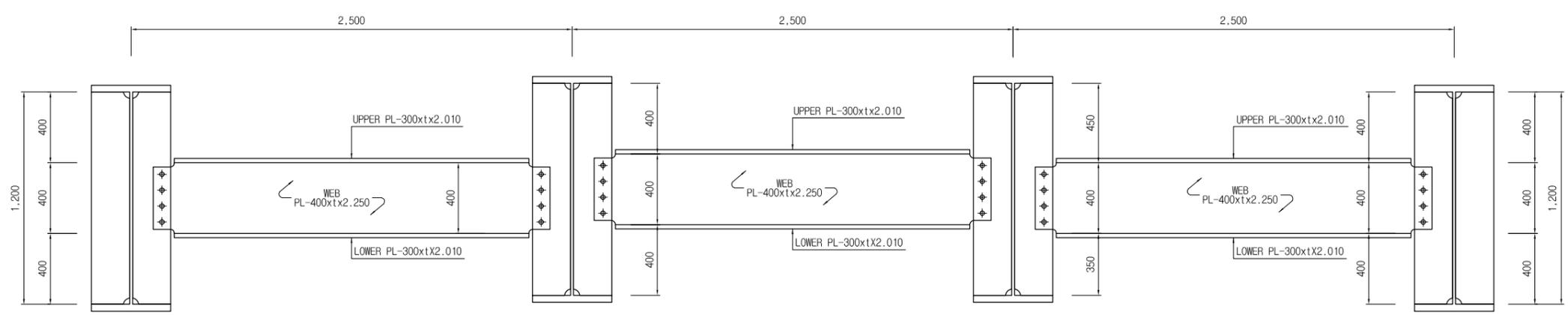


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS	
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	DRAWING No. A1/ NB120
				SURVEY BOOK Nos	PRINCIPAL		CHECKED E.J. Oh				EXECUTIVE ENGINEER	SECRETARY	PAPUA NEW GUINEA

END CROSS BEAM AT ABUTMENT



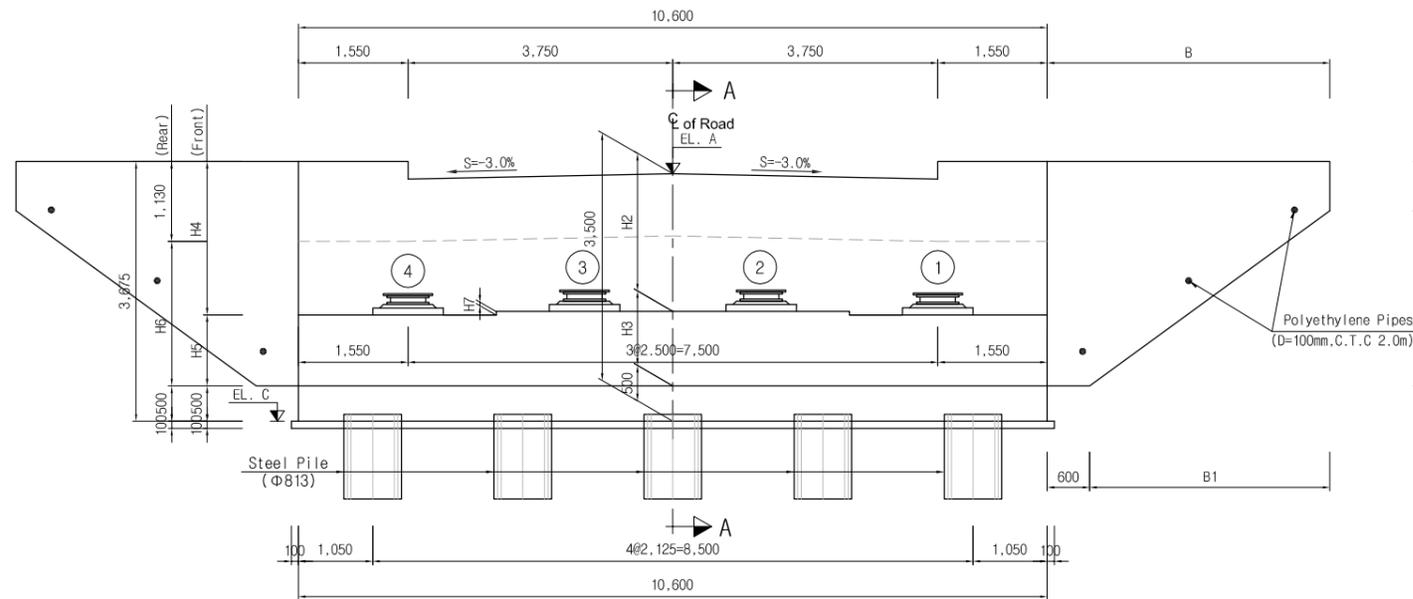
TYPICAL INTERMEDIATE CROSS BEAM DETAILS



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE DIAPHRAGM DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. DEPARTMENT OF WORKS A1/ NB121	
				SURVEY BOOK Nos	PRINCIPAL Date		CHECKED E.J. Oh				EXECUTIVE ENGINEER	SECRETARY

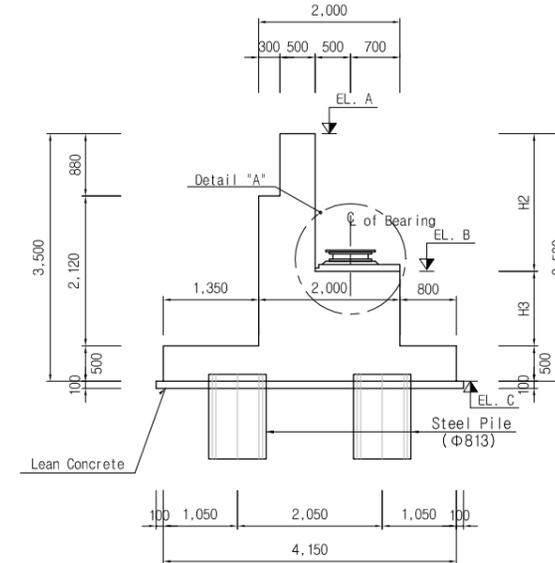
FRONT VIEW

S=1:50



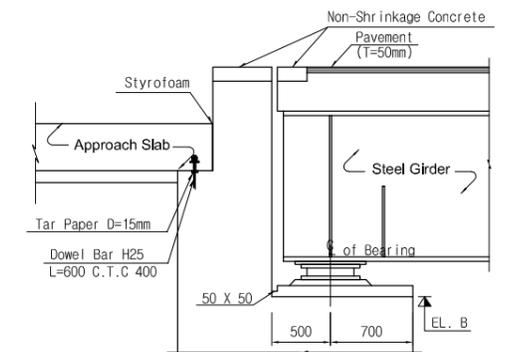
SECTION A-A

S=1:50



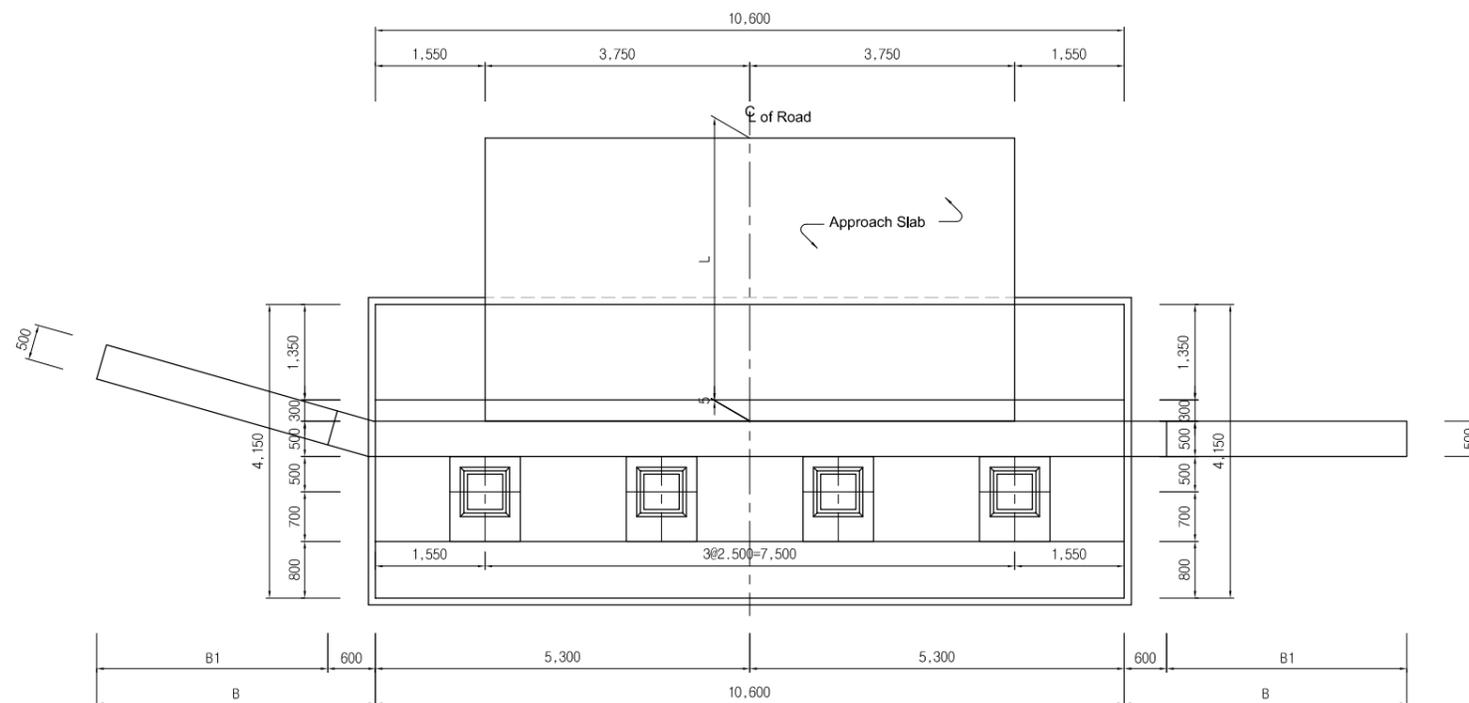
DETAIL "A"

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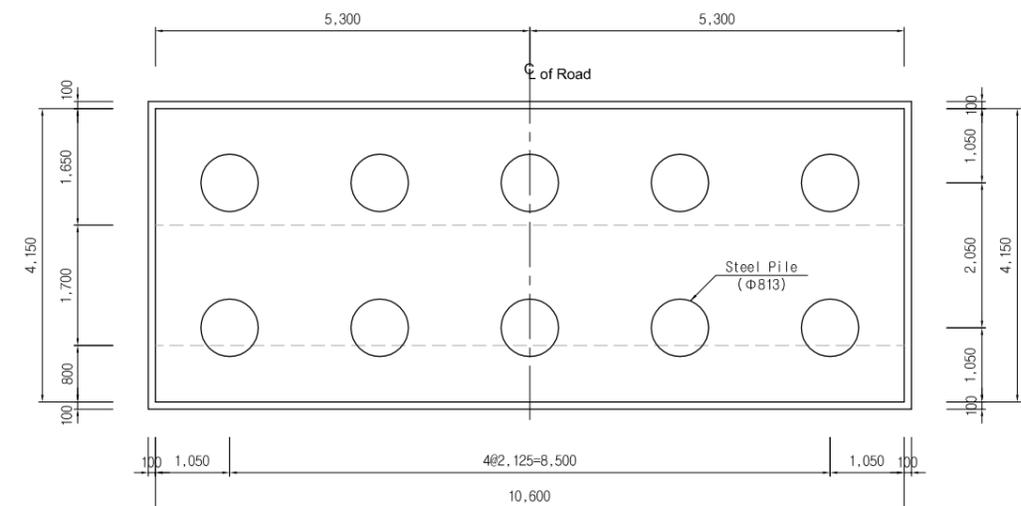
PLAN VIEW

S=1:50



FOUNDATION PLAN VIEW

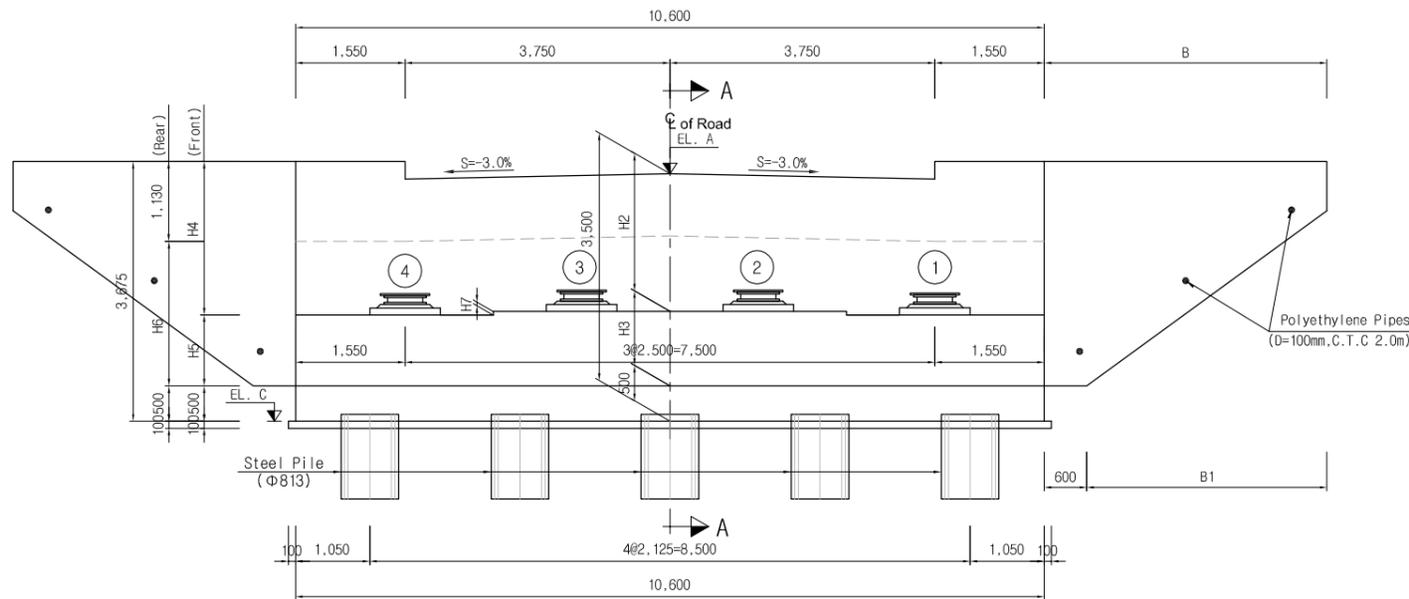
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REV.	AMENDMENTS			BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE		
	Date						M.M. Kim	AS SHOWN	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK					
	VERTICAL DATUM									Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER
	HORIZONTAL DATUM									I.H. Jang			APPROVED	SECRETARY
SURVEY BOOK Nos		PRINCIPAL	E.J. Oh	EXECUTIVE ENGINEER	SECRETARY	SHEET OF	PROJECT No.			AUTOCAD No.	DRAWING No.	REV.		
											PAPUA NEW GUINEA		DRAWING No.	REV.
											DEPARTMENT OF WORKS		A1/ NB122	

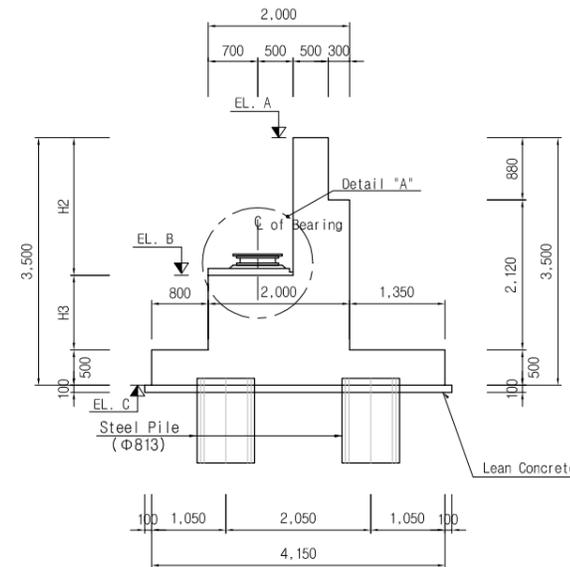
FRONT VIEW

S=1:50



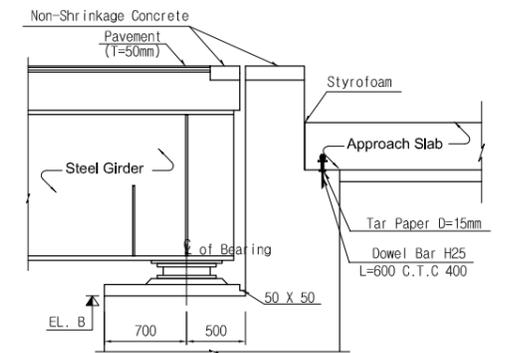
SECTION A-A

S=1:50



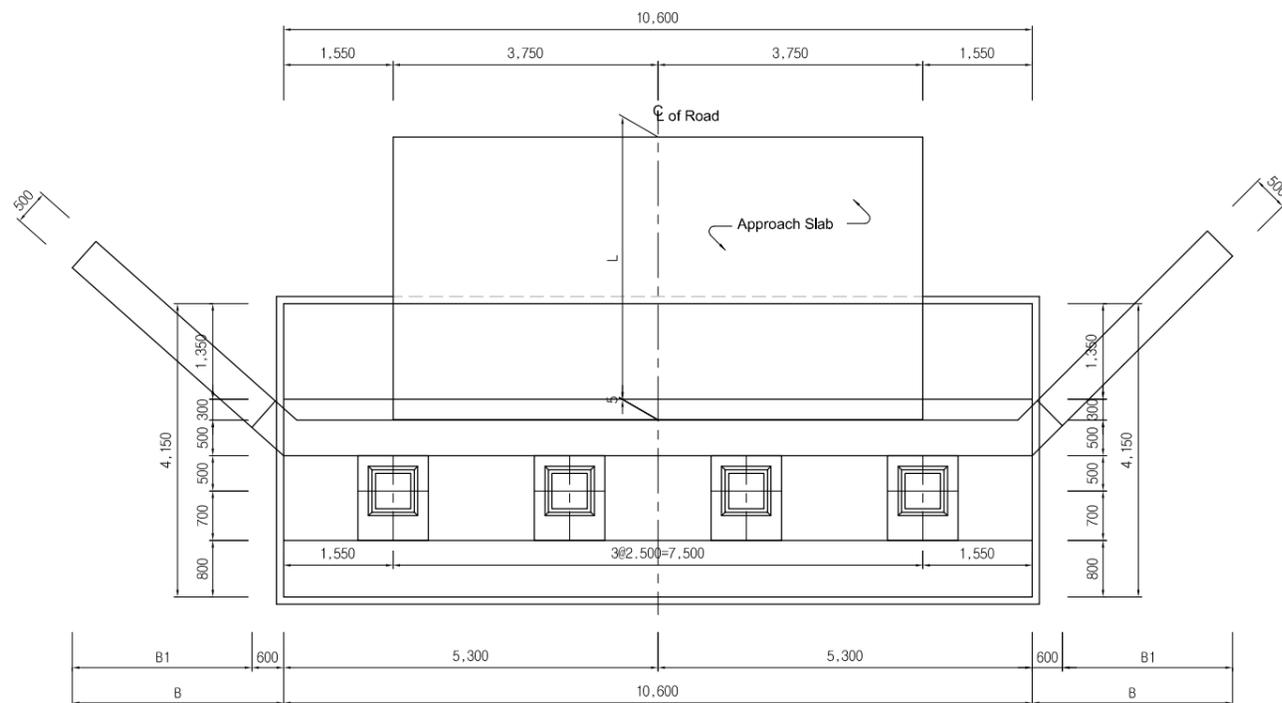
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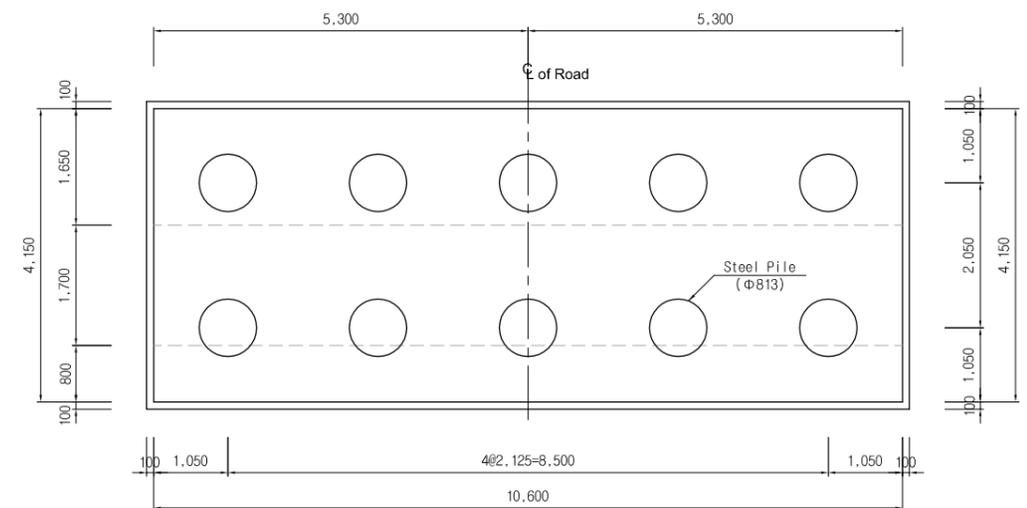
PLAN VIEW

S=1:50



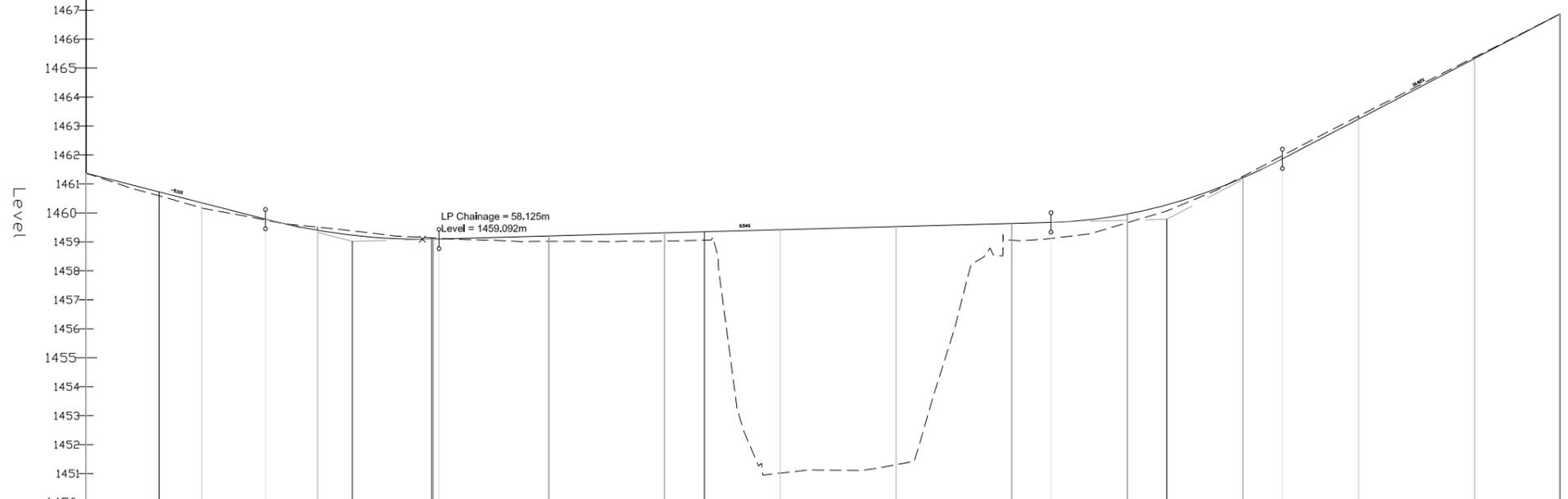
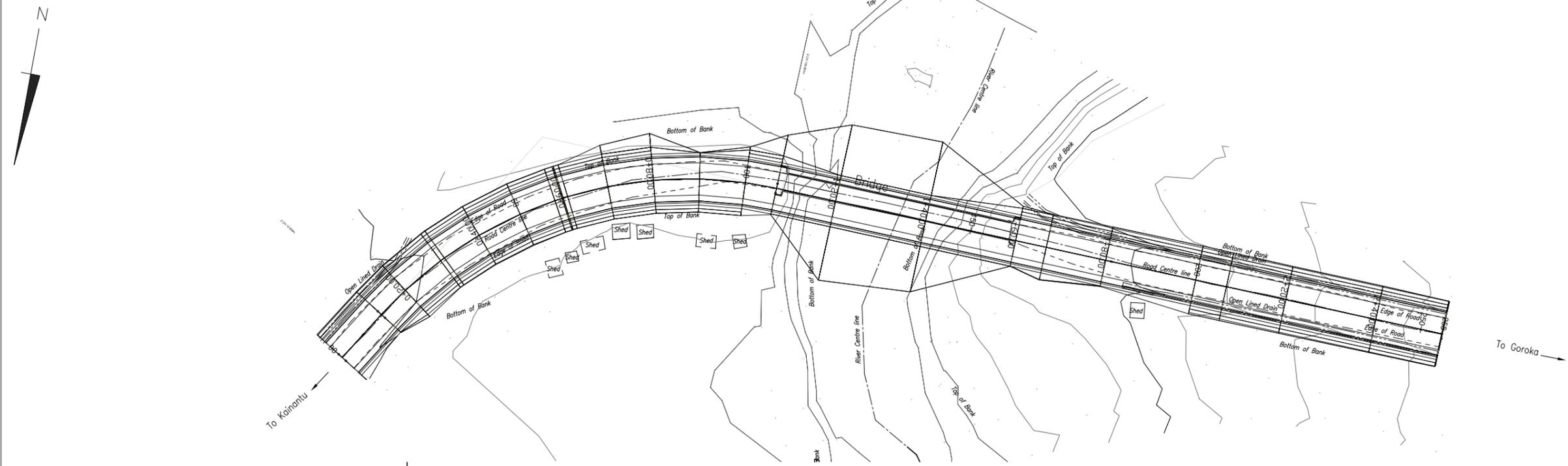
FOUNDATION PLAN VIEW

S=1:50



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES AS SHOWN	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					VERTICAL DATUM		CHECKED Y.J. Kim			PRINCIPAL ENGINEER	DRAWING TITLE ABUTMENT - GENERAL LAYOUT (A2)		
					HORIZONTAL DATUM	PRINCIPAL 	DESIGNED I.H. Jang	APPROVED		SHEET	PROJECT No.	AUTOCAD No.	DRAWING No. A1/ NB123
					SURVEY BOOK Nos		EXECUTIVE ENGINEER	CHECKED E.J. Oh	SECRETARY	OF			

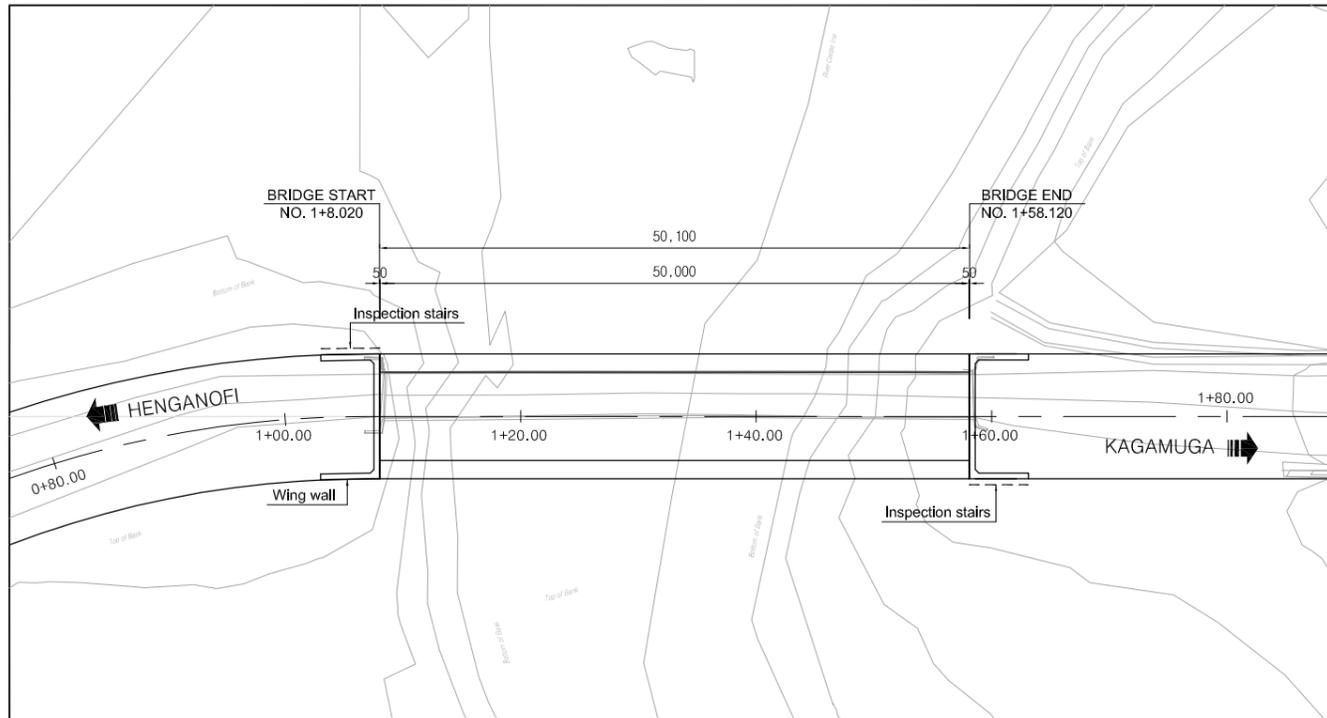
38. Dirty Wara River Bridge



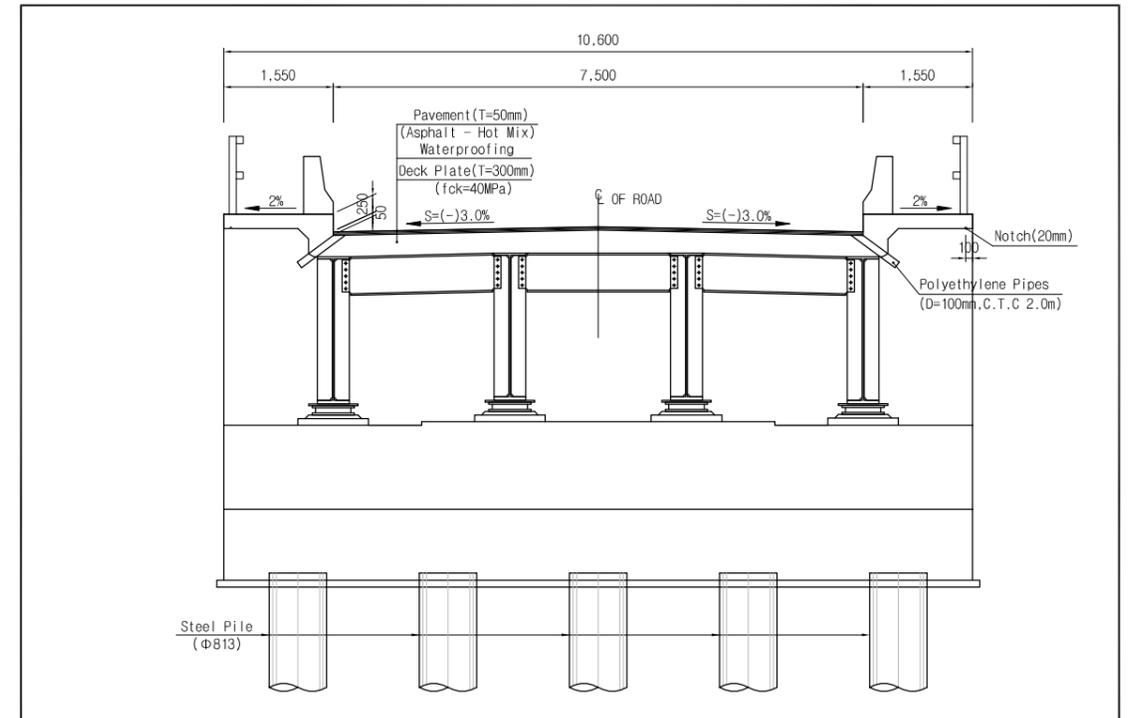
Proposed Levels	1461.371	1460.860	1460.348	1459.837	1459.402	1459.154	1459.095	1459.149	1459.203	1459.257	1459.311	1459.366	1459.420	1459.474	1459.528	1459.583	1459.637	1459.704	1459.960	1460.464	1461.214	1462.199	1463.241	1464.283	1465.325	1466.367	
Existing Levels	1461.371	1460.735	1460.169	1459.792	1459.511	1459.287	1459.136	1459.057	1459.022	1459.010	1459.028	1457.064	1451.017	1451.116	1451.307	1455.925	1459.061	1459.193	1459.862	1460.330	1461.264	1462.313	1463.343	1464.359	1465.369	1466.378	1466.866
Chainage	00.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	254.769
Horizontal Geometry	L = 12.609		R: 90.000 L: 94.272										L = 147.908														

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE			
					VERTICAL DATUM	 	D. VALLIKAY		H 1:1000	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP)			
					DATE			CHECKED		V 1:200	- TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					HORIZONTAL DATUM		A. WAZOB	PRINCIPAL ENGINEER			DRAWING TITLE		
					SURVEY BOOK Nos	PRINCIPAL	A. WAZOB	APPROVED			PLAN AND PROFILE SHEET - DIRTY WATR		
						Date	I. JANG	EXECUTIVE ENGINEER			PAPUA NEW GUINEA	DRAWING No.	REV.
								SECRETARY	SHEET OF	PROJECT No.	AUTOCAD No.	DEPARTMENT OF WORKS	A1/ AR025

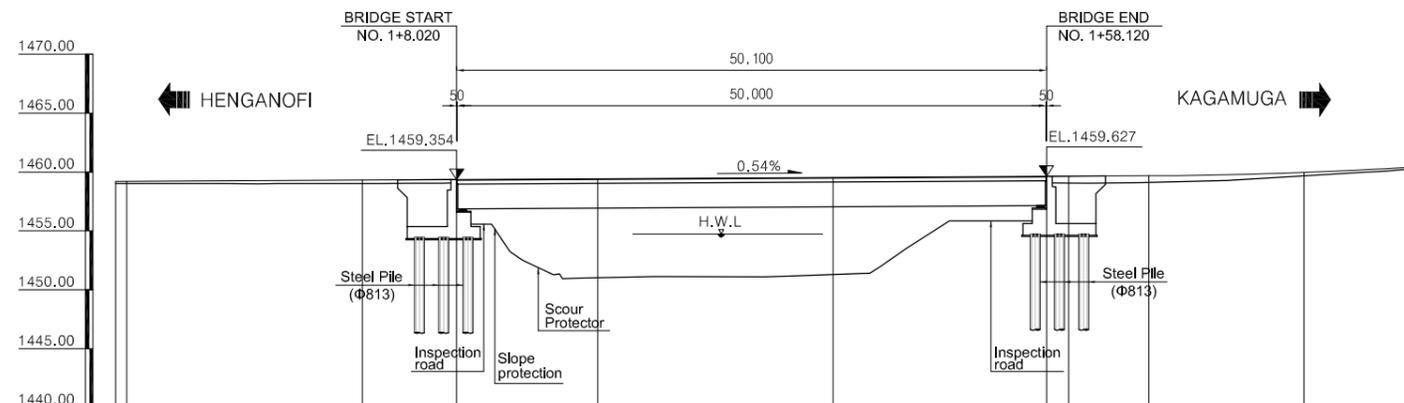
LAYOUT PLAN
S=1:300



CROSS SECTION
S=1:50



LONGITUDINAL ELEVATION
S=1:300



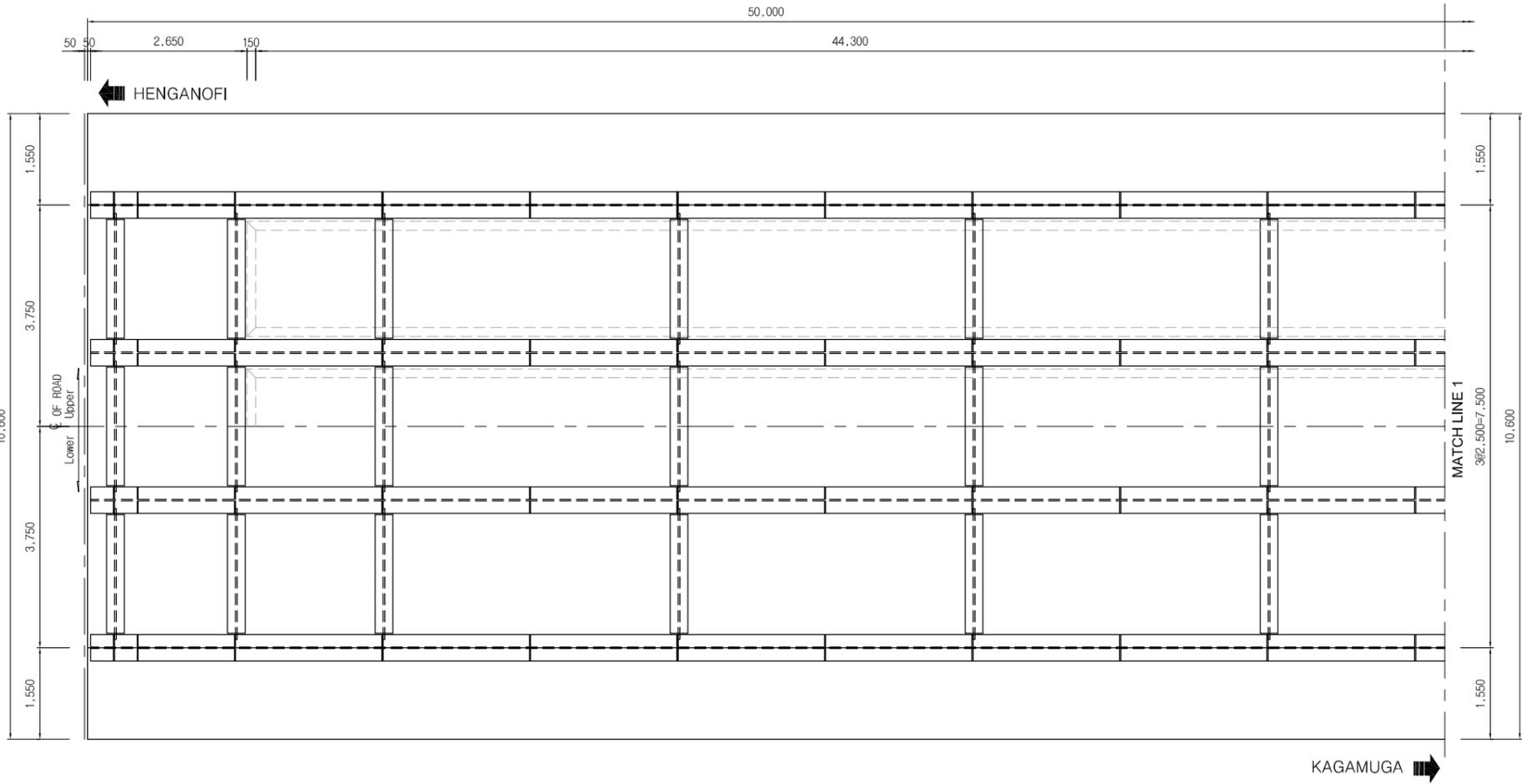
VERTICAL ALIGNMENT	S=0.5400%								
	H=0.471, L=86.806								
ELEVATION DESIGN LEVEL	1459.20	1459.31	1459.35	1459.42	1459.53	1459.63	1459.64	1459.67	1459.96
GROUND LEVEL	1459.02	1459.03	1459.07	1451.02	1451.31	1458.52	1459.06	1459.12	1459.66
STATION	0+80.00	1+00.00	1+8.02	1+20.00	1+40.00	1+58.12	1+60.00	1+66.81	1+80.00

NOTE

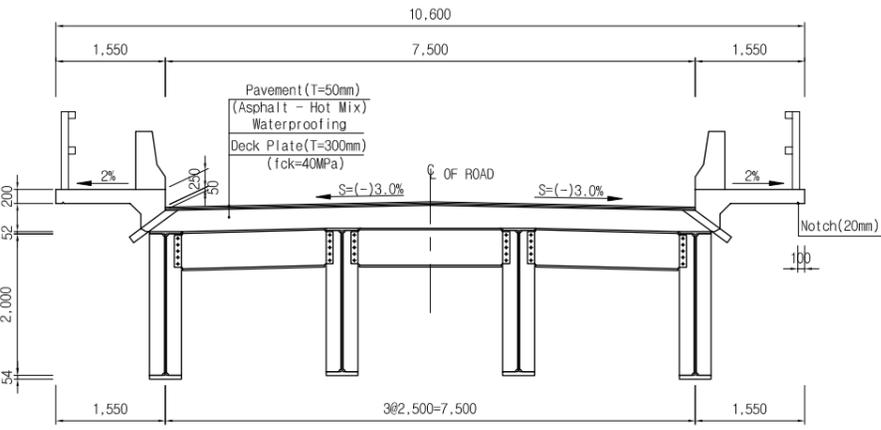
- The design level of bridge profile standardizes the top level of the bridge pavement.
- The main materials should be approved by the supervision consultant and/or PMO/DOW before construction.
- Foundation depth including pile length should be rechecked by contractor with one or more borehole geotechnical investigation in each foundation for proper bearing force. It shall be confirmed by the supervision consultant.
- Foundation ground field condition should be checked by geotechnical engineers and the supervision consultants for satisfying a proper bearing capacity requirement with plate bearing tests.
- Contractor to construct exact bridge structure described in the drawings should establish the detailed construction plan and temporary structure design for the supervision consultant's approval.
- Bridge inspection stairs should be installed for the easy maintenance work of girder, bearing and substructure.
- Foundation scour protection and slope protection in front of abutments should be installed for keeping the foundation stability.
- Drainage outlet distance should be determined based on the hydrological review detailed including climate change as increasing intensive heavy raining for the durability extension of bridge deck and pavement.
- Bridge walkway widths at both sides are determined as 1.55m to be considered for the future utilization increase.
- The designed elevation of bearings and expansion joints should be rechecked with real applied products for accurate construction.

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DESIGNED	DESIGNED	RECOMMENDED	SCALES	PROJECT TITLE	DRAWING TITLE
					VERTICAL DATUM	PEC	M.M. Kim	I.H. Jang	AS SHOWN	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					DATE		CHECKED	PROJECT ENGINEER	PRINCIPAL ENGINEER		PAPUA NEW GUINEA	DRAWING No.
					SURVEY BOOK Nos		E.J. Oh	EXECUTIVE ENGINEER	SECRETARY	SHEET OF	DEPARTMENT OF WORKS	A1/ NB124

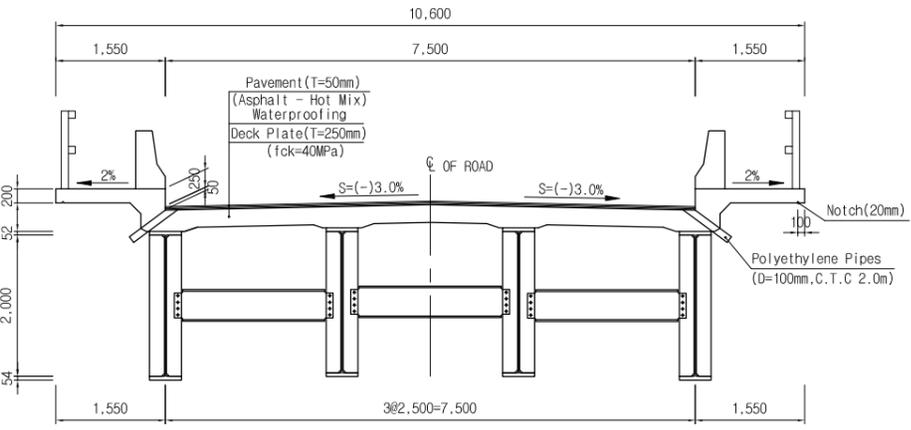
PLAN VIEW



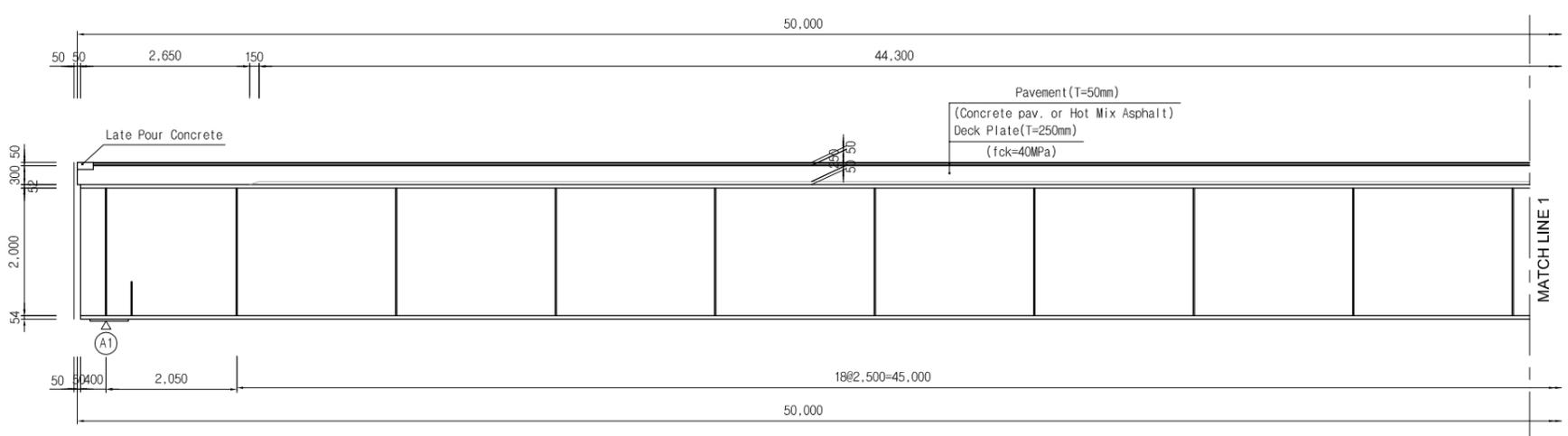
END PART SECTION



MID PART SECTION

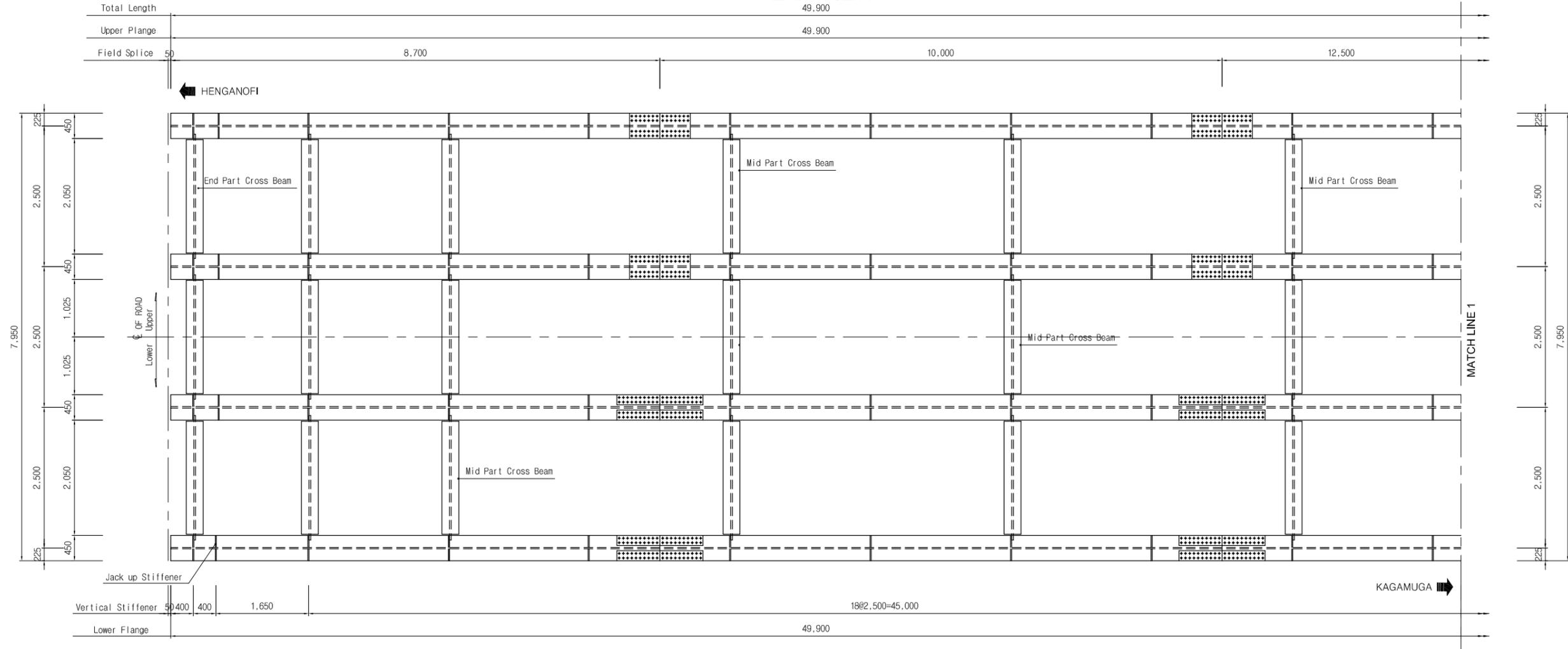


LONGITUDINAL SECTION

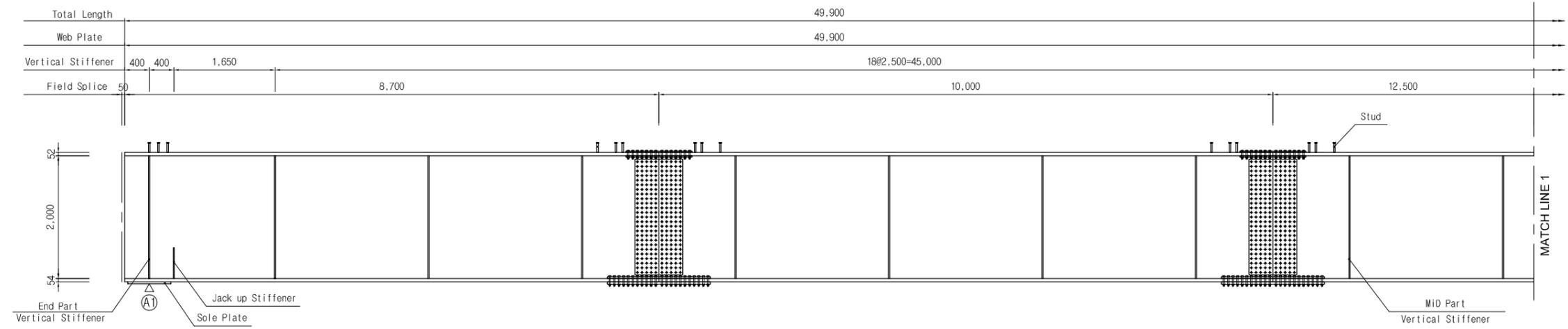


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE					
					VERTICAL DATUM		M.M. Kim	1:50	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK						
HORIZONTAL DATUM	DESIGNED	PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE											
					SURVEY BOOK Nos		I.H. Jang	APPROVED		SLAB-GENERAL LAYOUT (1)					
						PRINCIPAL	E.J. Oh	EXECUTIVE ENGINEER	SECRETARY	SHEET OF	PROJECT No.	AUTOCAD No.	PAPUA NEW GUINEA	DRAWING No.	REV.
						Date							DEPARTMENT OF WORKS	A1/ NB125	

PLAN VIEW

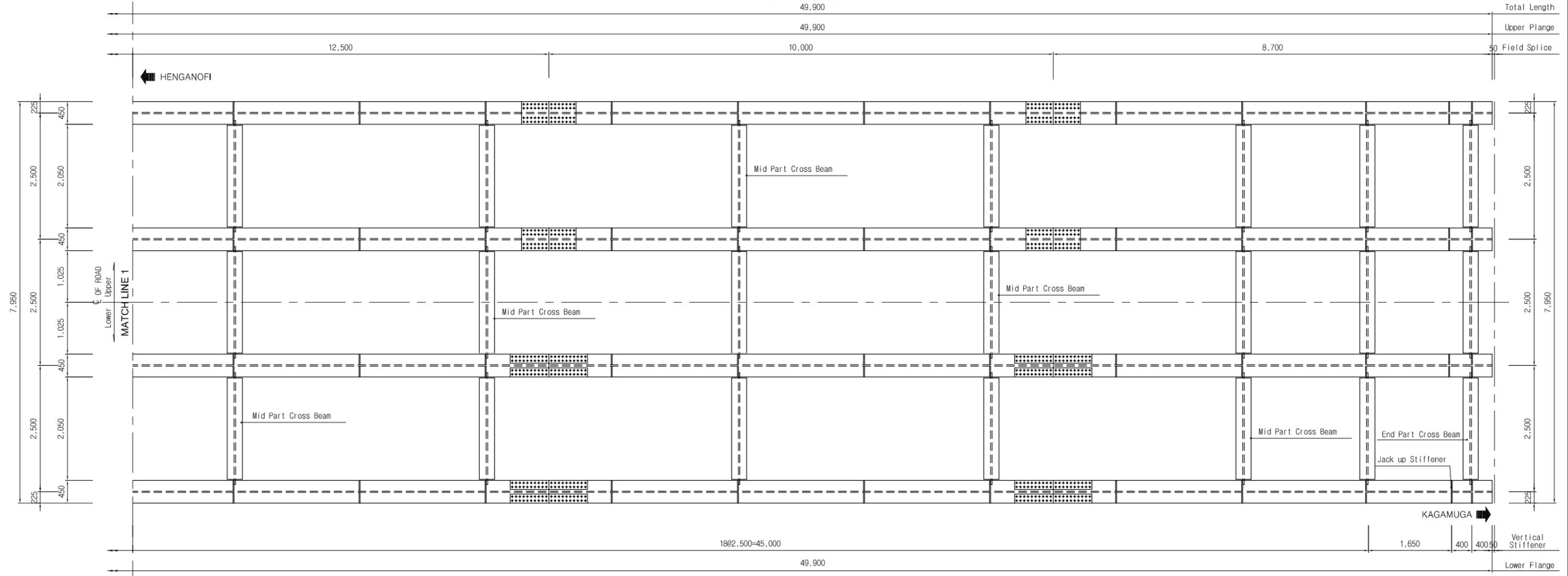


LONGITUDINAL SECTION

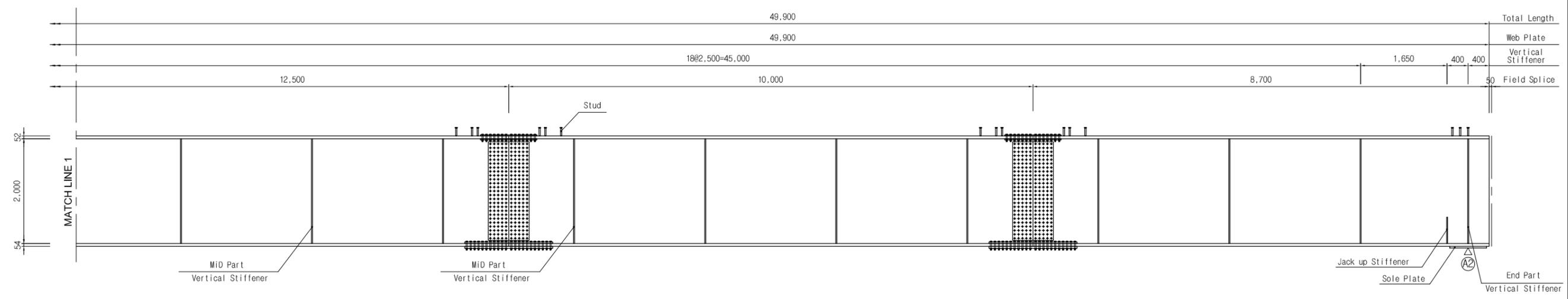


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER - GENERAL LAYOUT(1)
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB127	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

PLAN VIEW

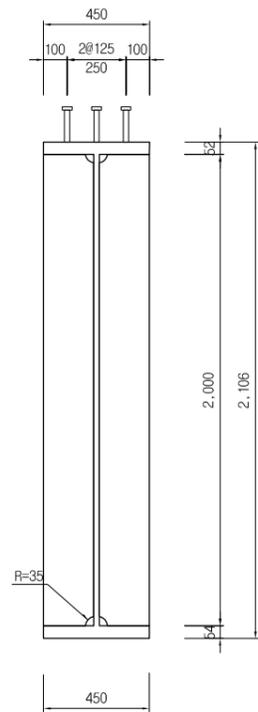


LONGITUDINAL SECTION



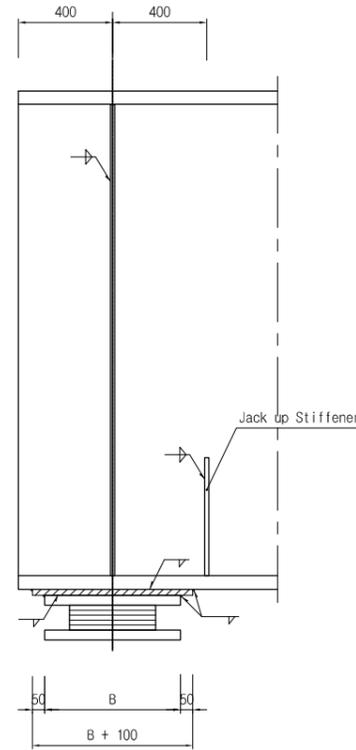
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER - GENERAL LAYOUT(2)
					HORIZONTAL DATUM Date		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. DEPARTMENT OF WORKS A1/ NB128	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

STEEL GIRDER DETAIL

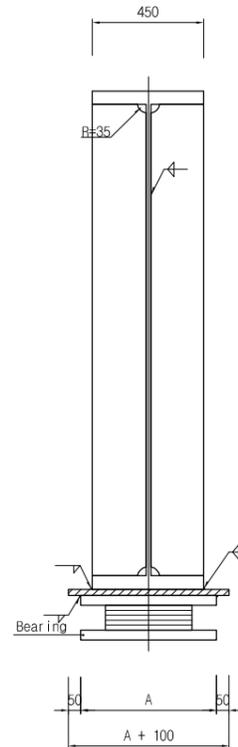


(Per Iea)
 PL-450X52X49,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-2,000X24X49,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X54X49,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

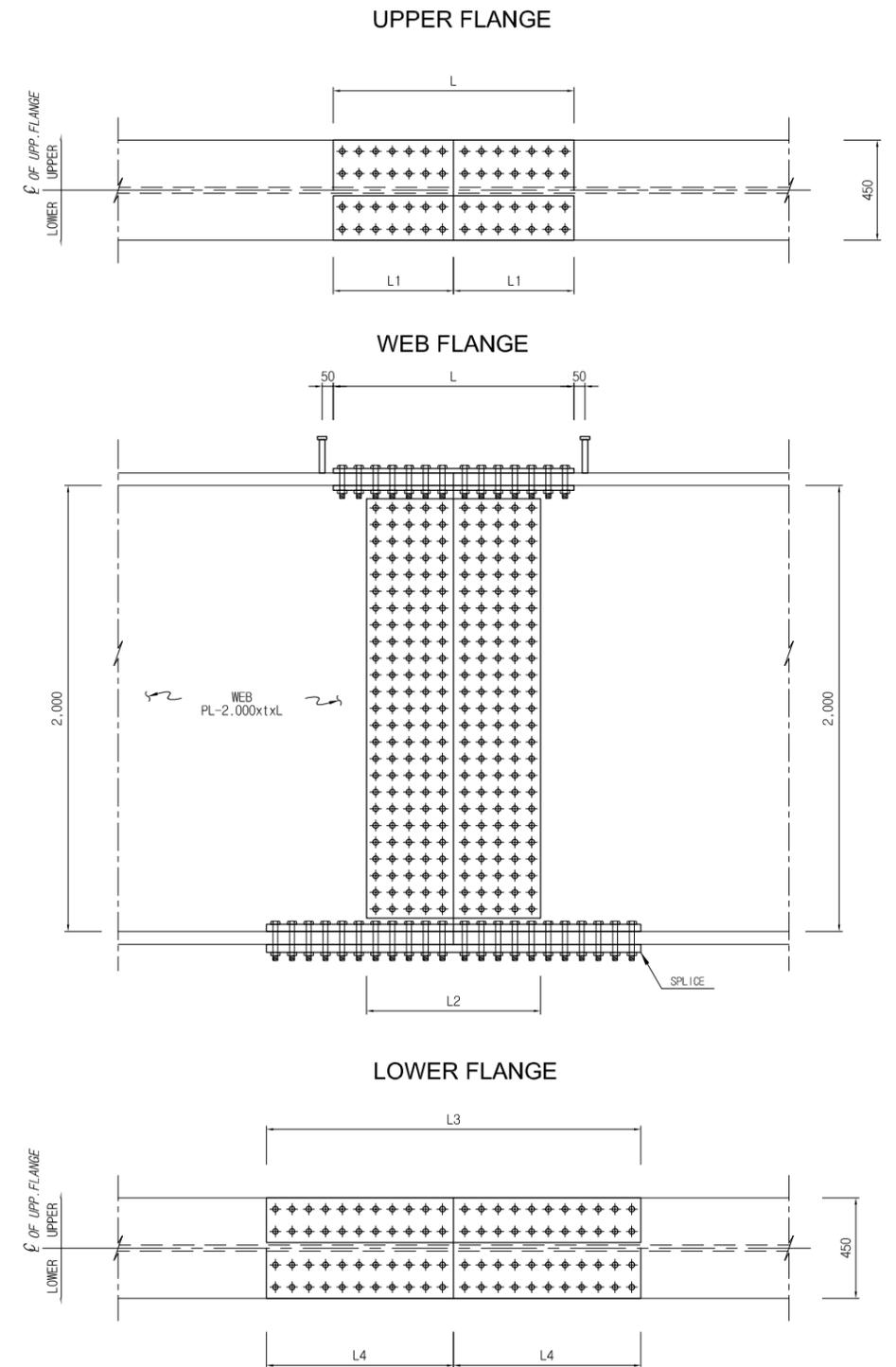
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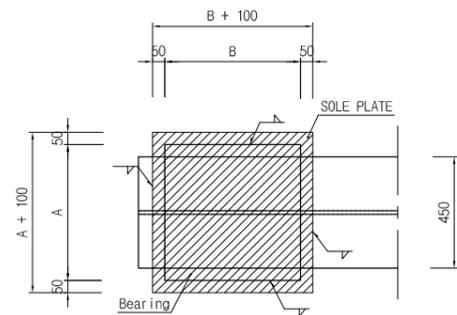
SECTION A-A



SPLICE DETAILS

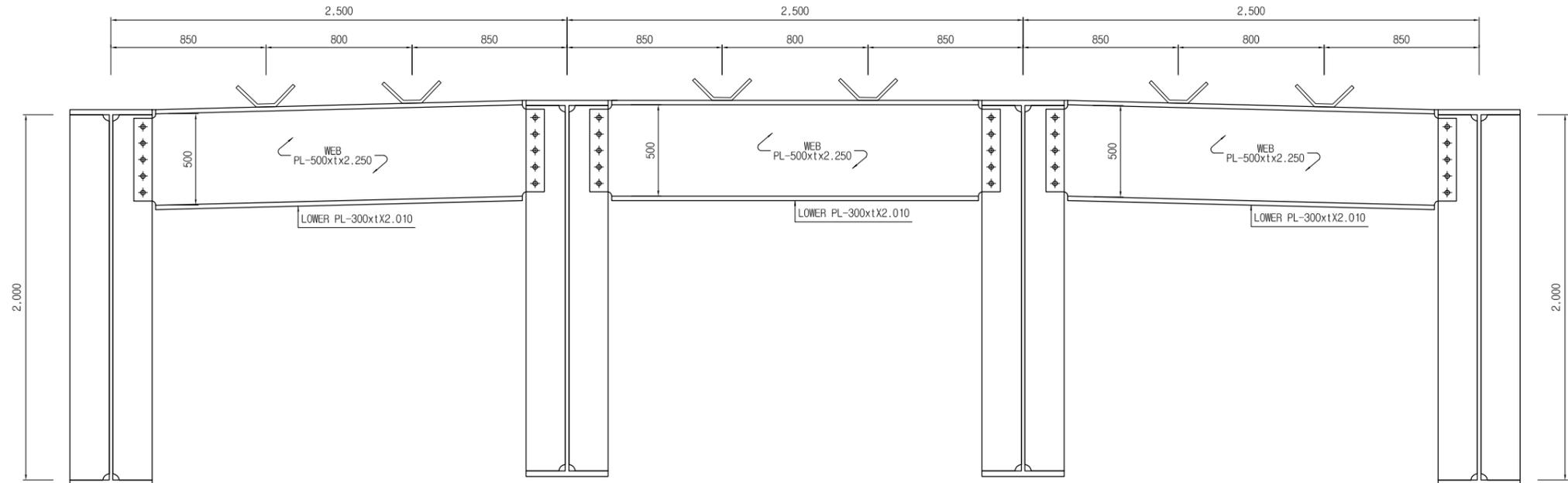


END PART PLAN VIEW

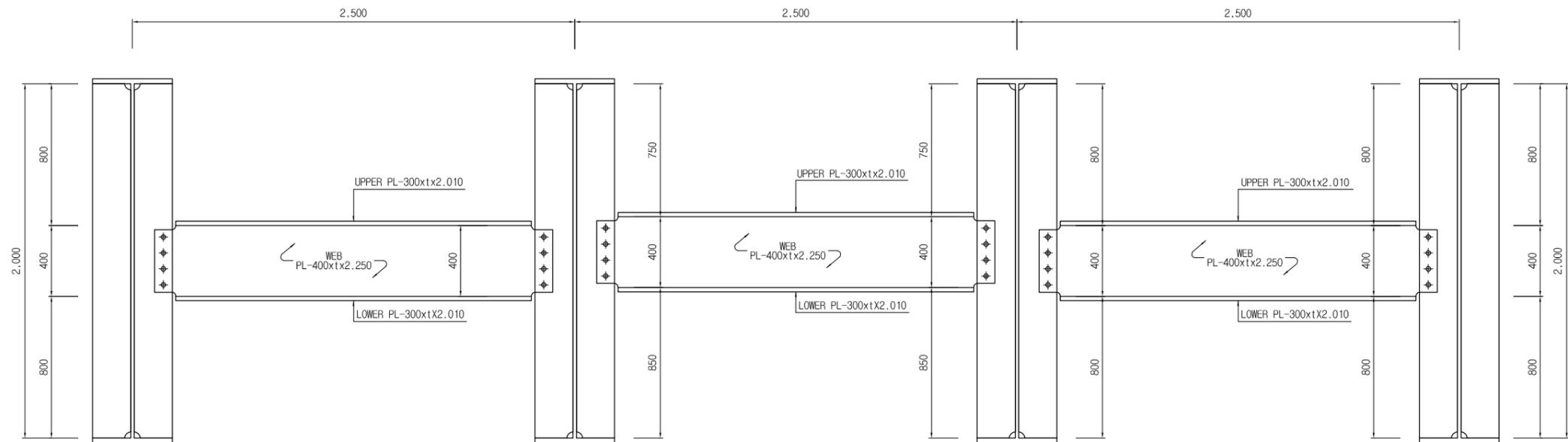


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK					
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS			
					HORIZONTAL DATUM	PRINCIPAL 	DESIGNED I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	PAPUA NEW GUINEA DEPARTMENT OF WORKS	DRAWING No. A1/ NB129	REV.
					SURVEY BOOK Nos		CHECKED E.J. Oh	EXECUTIVE ENGINEER	SECRETARY						

END CROSS BEAM AT ABUTMENT



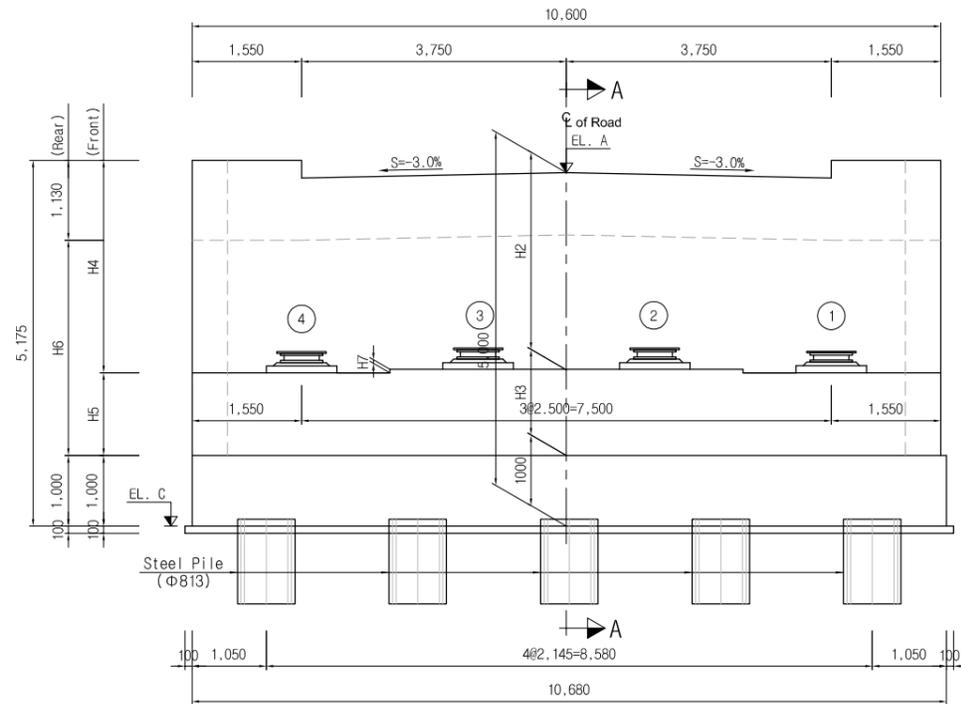
TYPICAL INTERMEDIATE CROSS BEAM DETAILS



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE DIAPHRAGM DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB130	
				SURVEY BOOK Nos	PRINCIPAL Date		CHECKED E.J. Oh				EXECUTIVE ENGINEER	SECRETARY

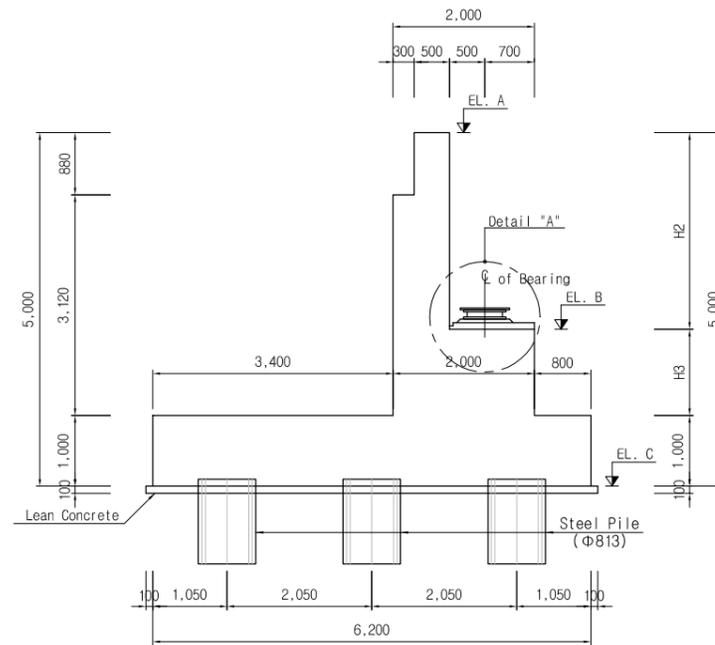
FRONT VIEW

S=1:50



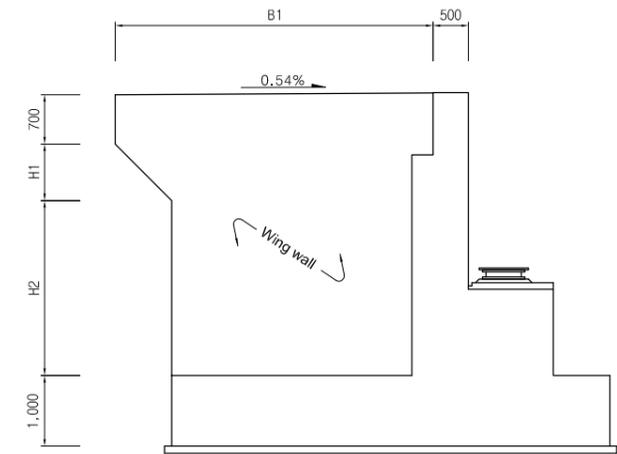
SECTION A-A

S=1:50



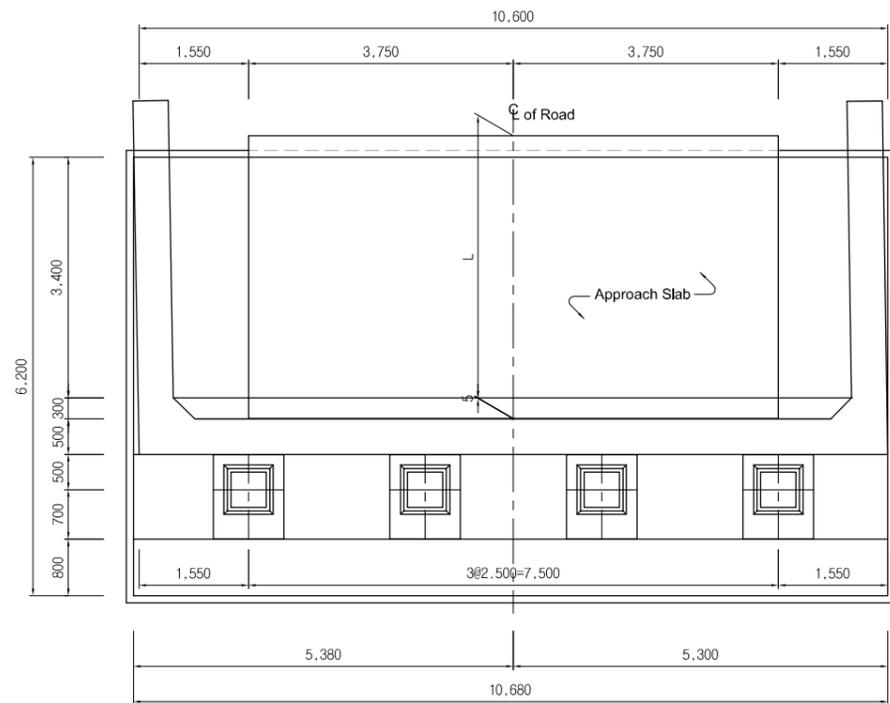
WING WALL SECTION

S=1:50



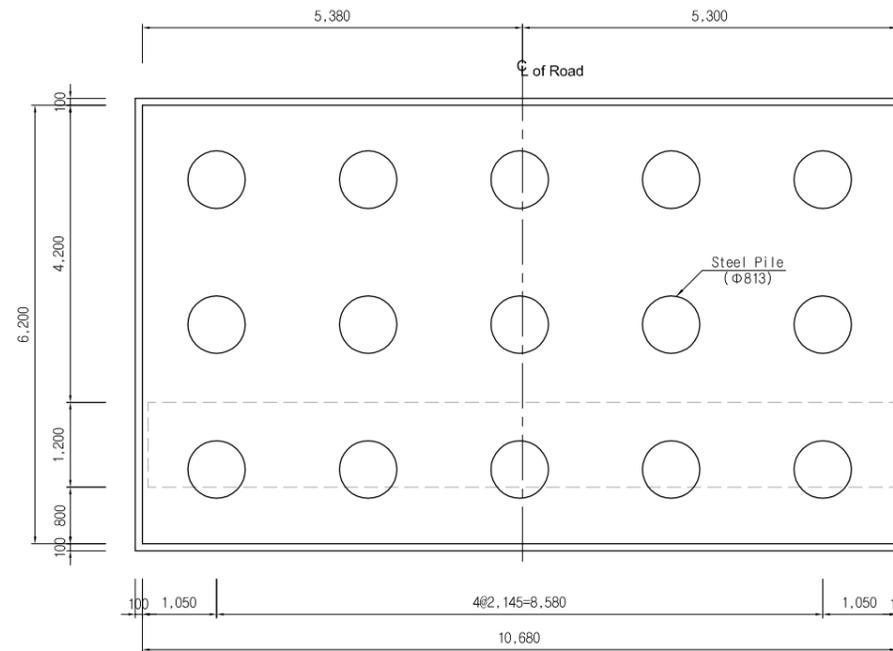
PLAN VIEW

S=1:50



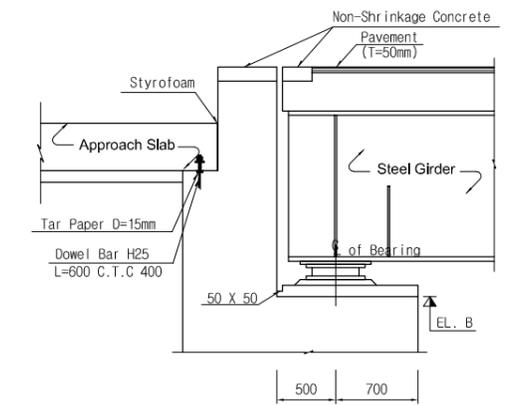
FOUNDATION PLAN VIEW

S=1:50



DETAIL "A"

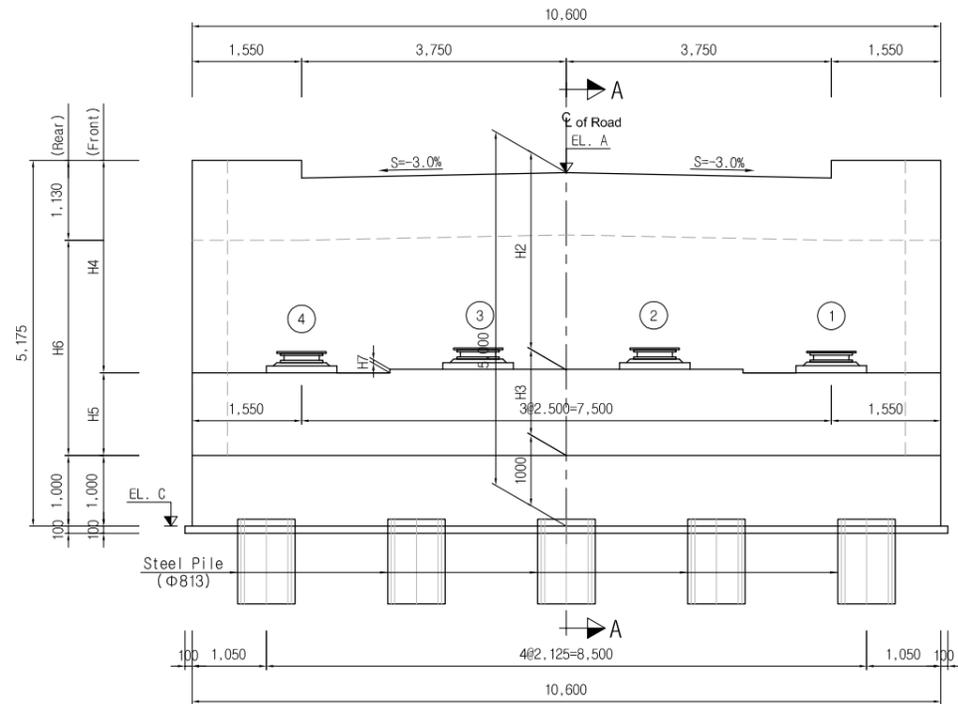
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REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT		DRAWN	RECOMMENDED	SCALES	PROJECT TITLE	DRAWING TITLE	PAPUA NEW GUINEA	DRAWING No.	REV.
					VERTICAL DATUM			DESIGNED							
					Date		Date	M.M. Kim CHECKED Y.J. Kim DESIGNED I.H. Jang CHECKED E.J. Oh	PRINCIPAL ENGINEER APPROVED EXECUTIVE ENGINEER	SHEET OF PROJECT No. AUTOCAD No.	ABUTMENT - GENERAL LAYOUT (A1)	A1/ NB131			

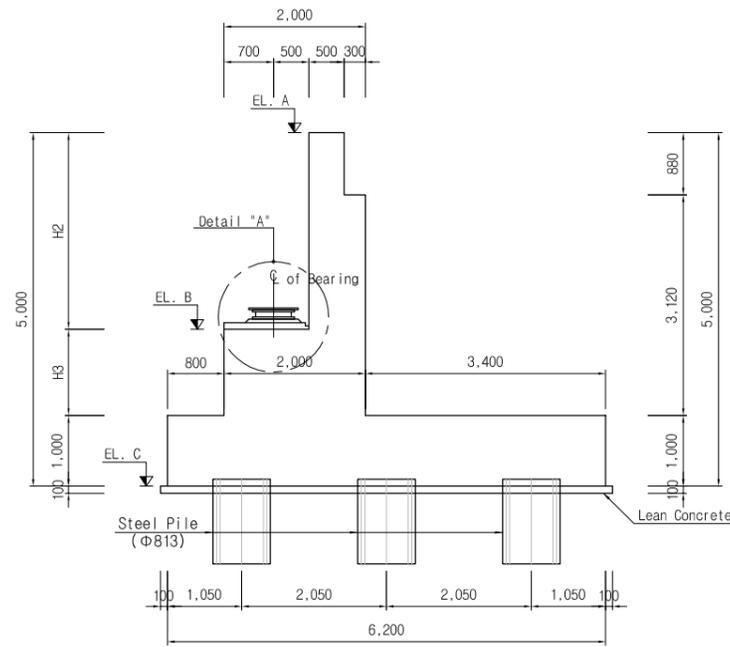
FRONT VIEW

S=1:50



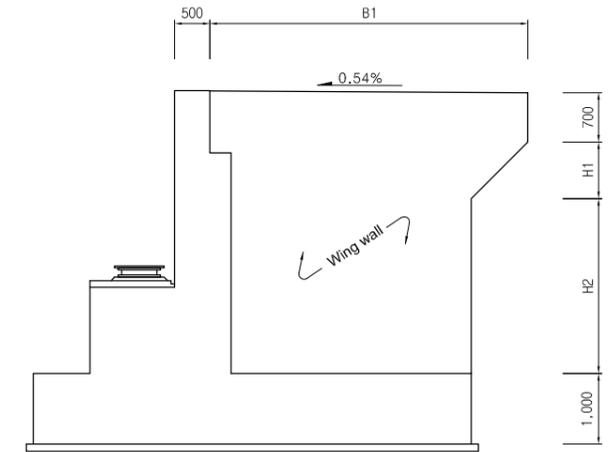
SECTION A-A

S=1:50



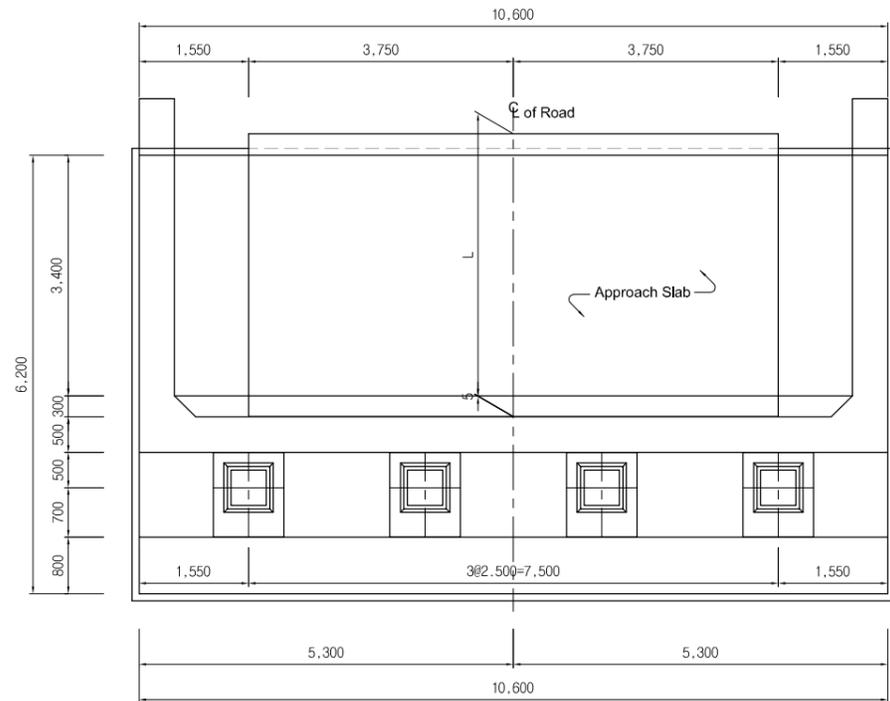
WING WALL SECTION

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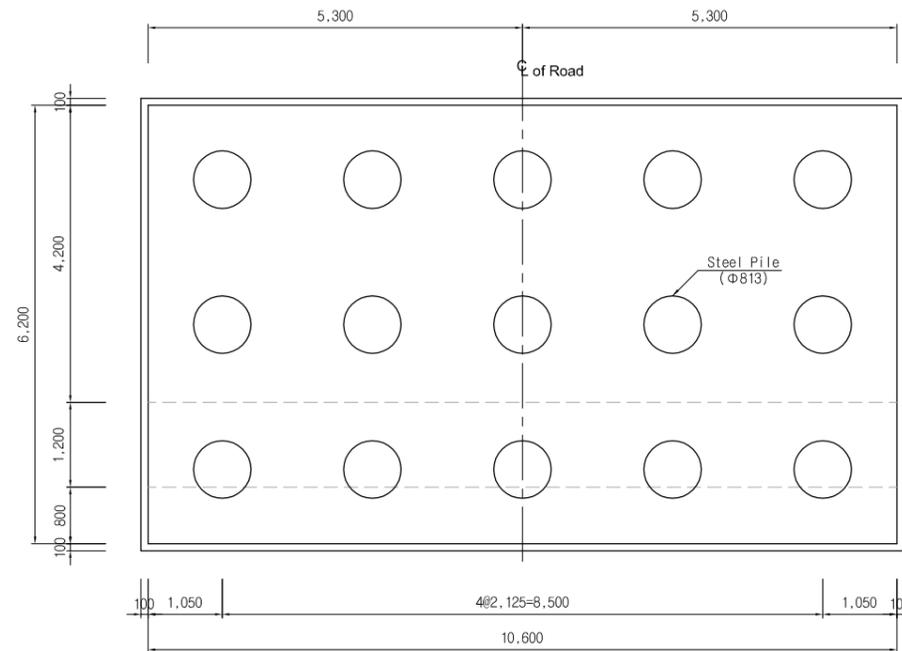
PLAN VIEW

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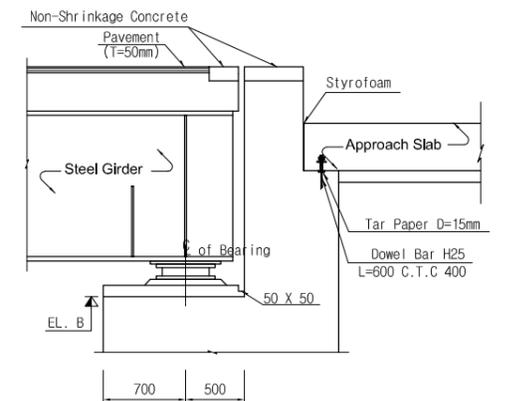
FOUNDATION PLAN VIEW

S=1:50



DETAIL "A"

S=NONE



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES AS SHOWN	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK
					VERTICAL DATUM Date		CHECKED Y.J. Kim			
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER			

39. Siguya River Bridge