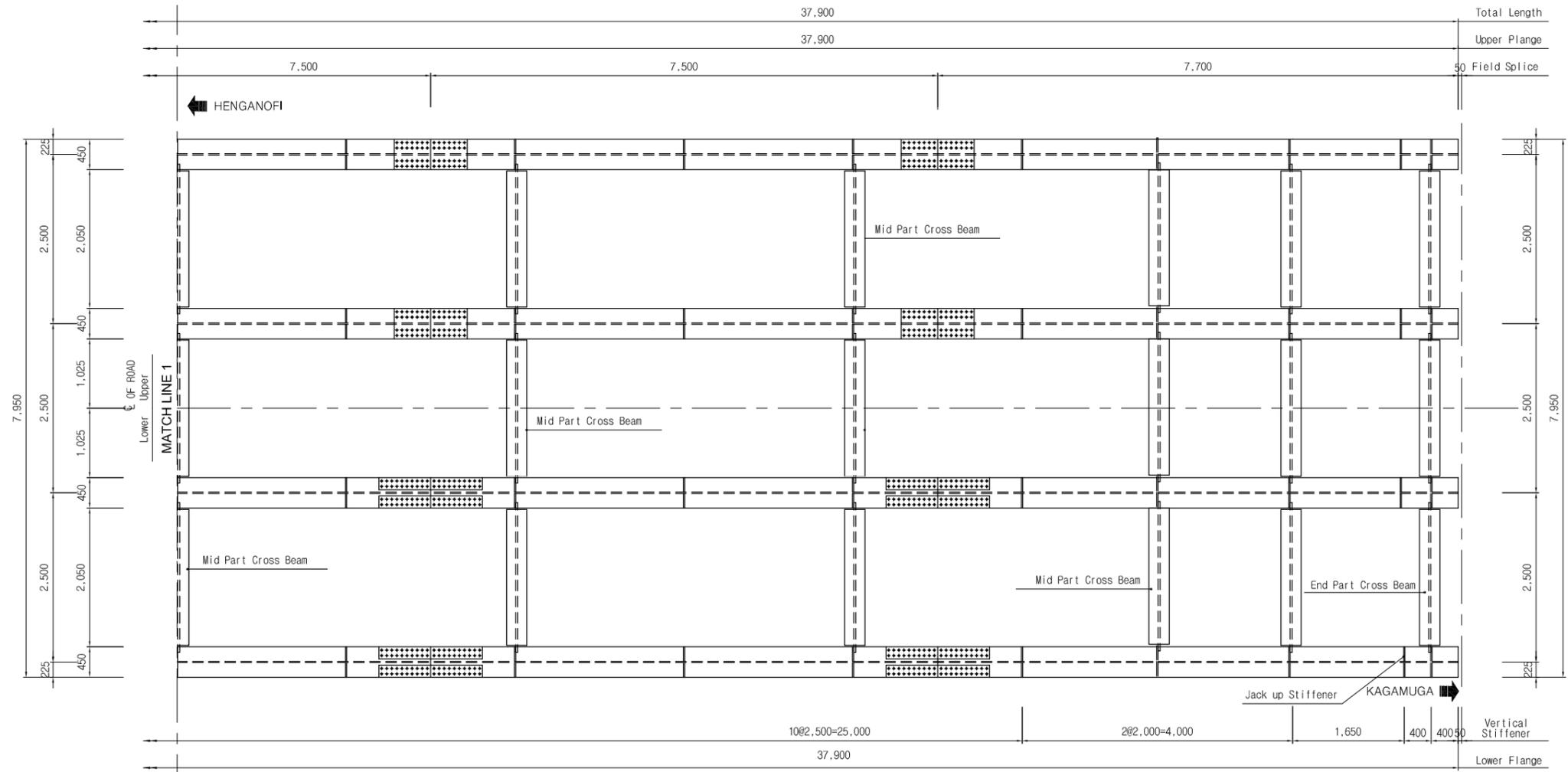
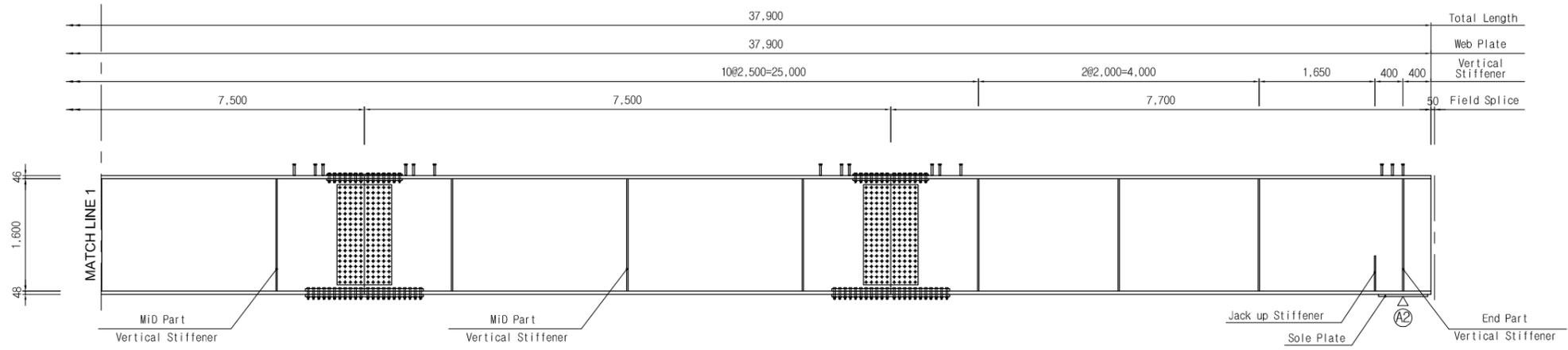


PLAN VIEW

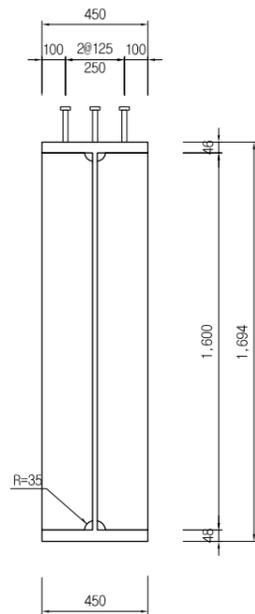


LONGITUDINAL SECTION



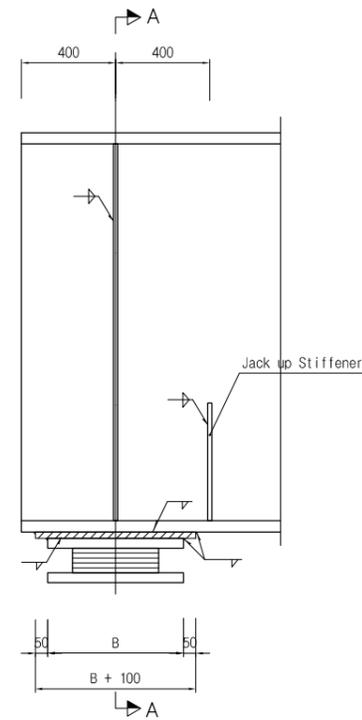
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER - GENERAL LAYOUT(2)
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB181	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

STEEL GIRDER DETAIL

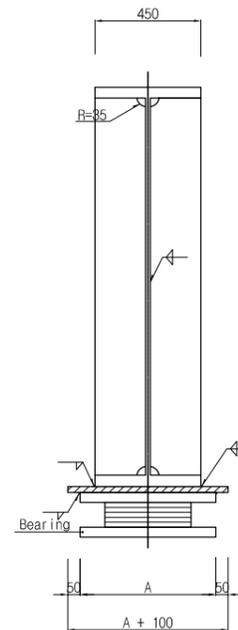


(Per 1ea)
 PL-450X46X37,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-1,600X20X37,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X46X37,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

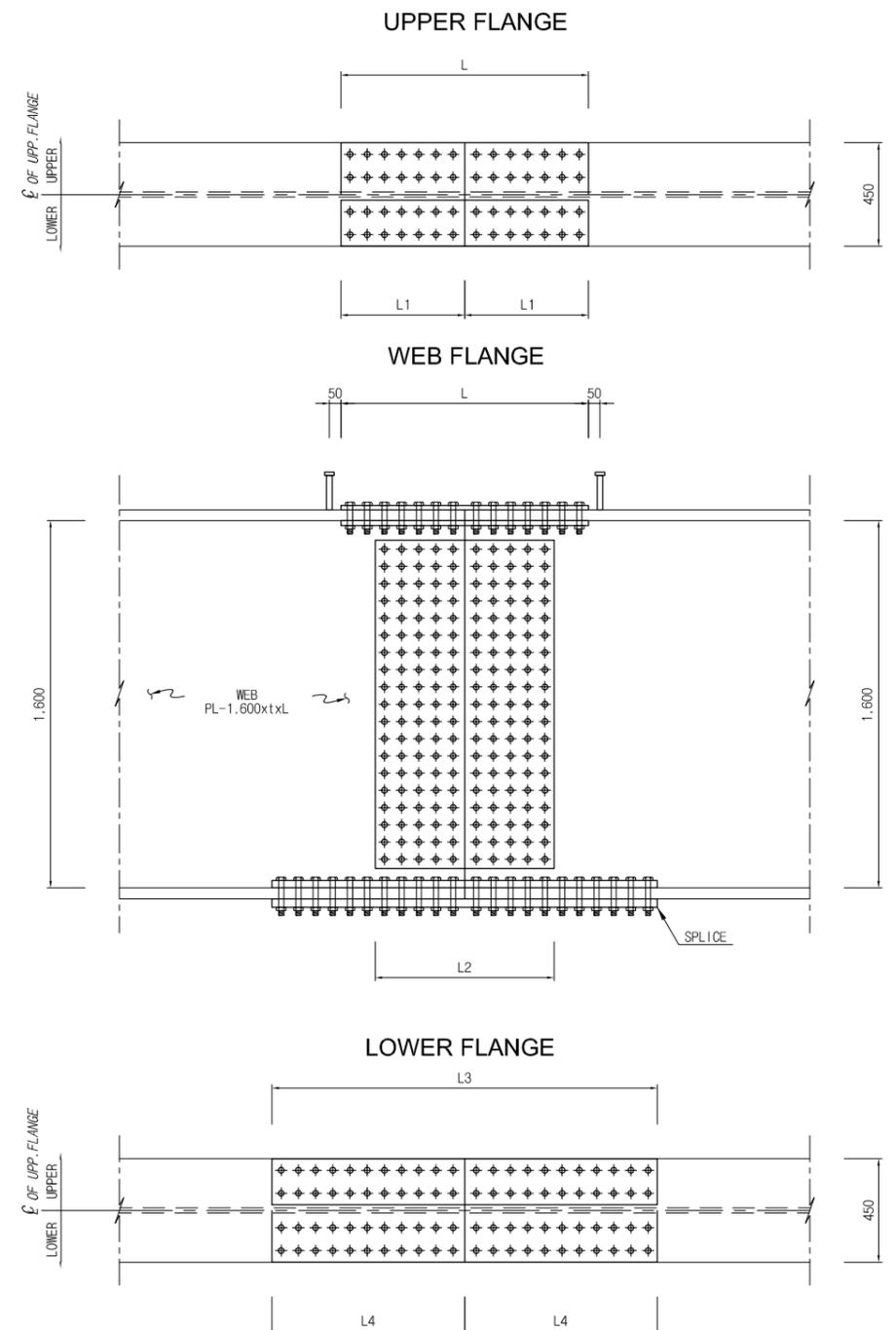
END PART DETAIL



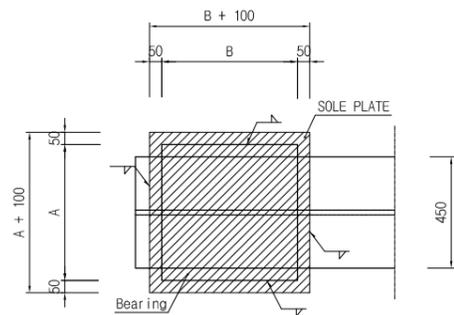
SECTION A-A



SPLICE DETAILS

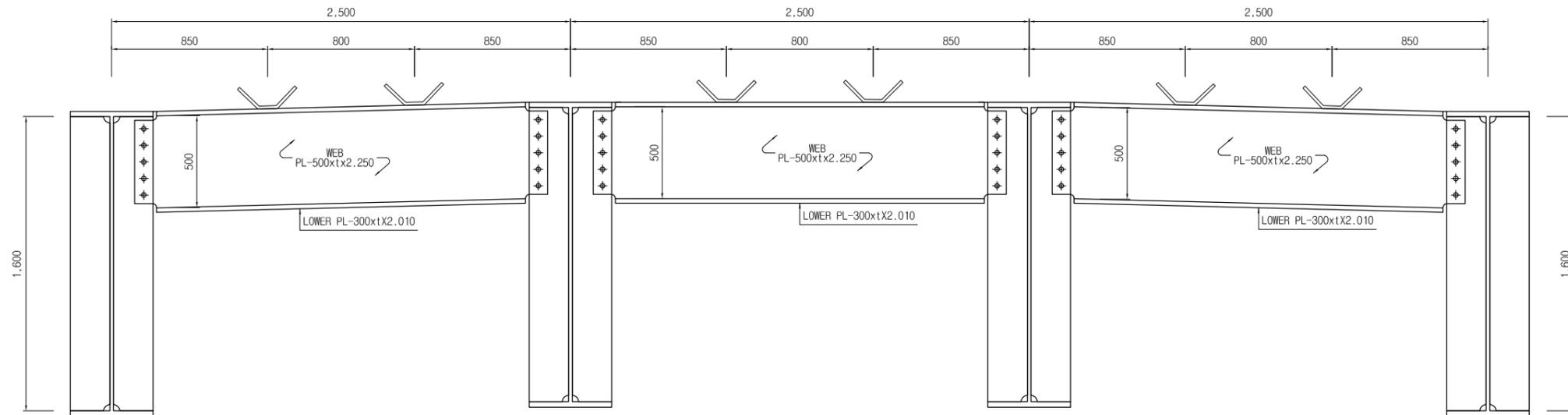


END PART PLAN VIEW

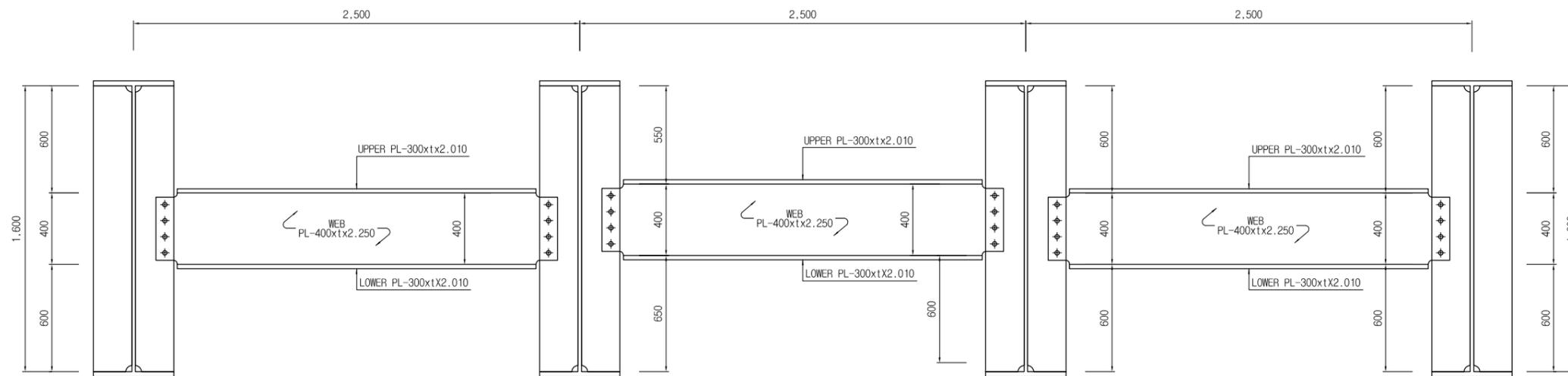


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB182	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

END CROSS BEAM AT ABUTMENT



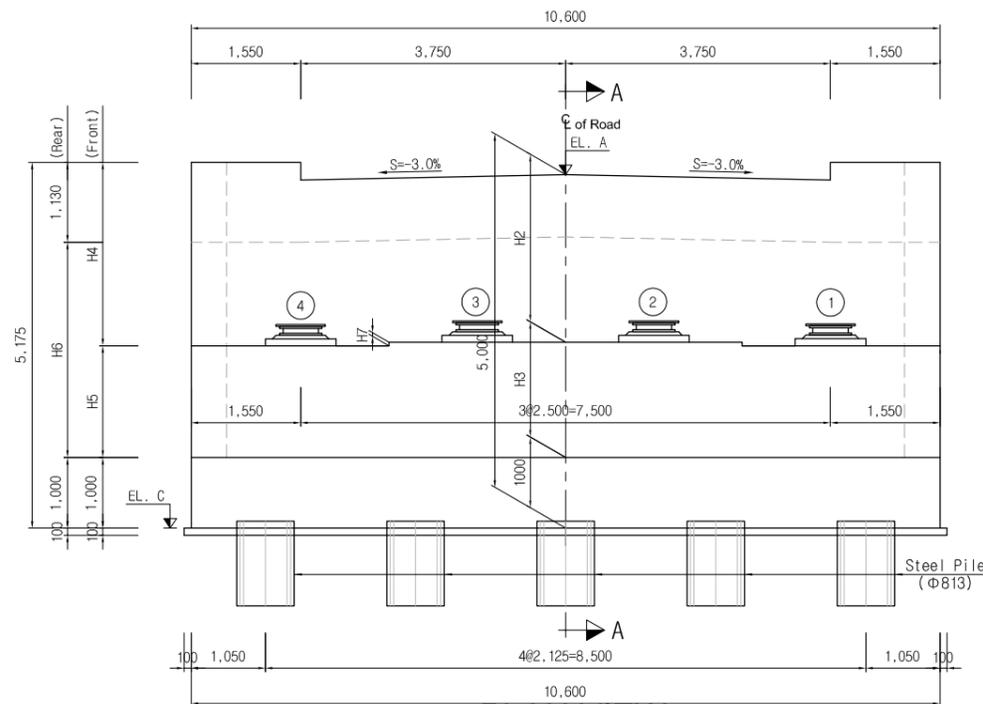
TYPICAL INTERMEDIATE CROSS BEAM DETAILS



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/ NB183	
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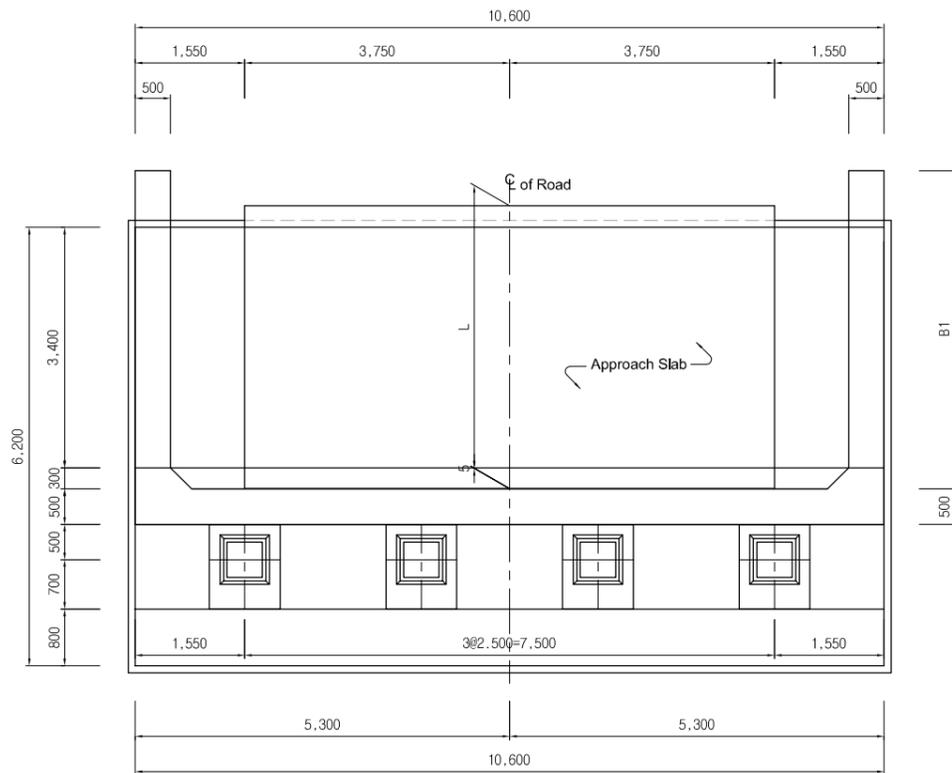
FRONT VIEW

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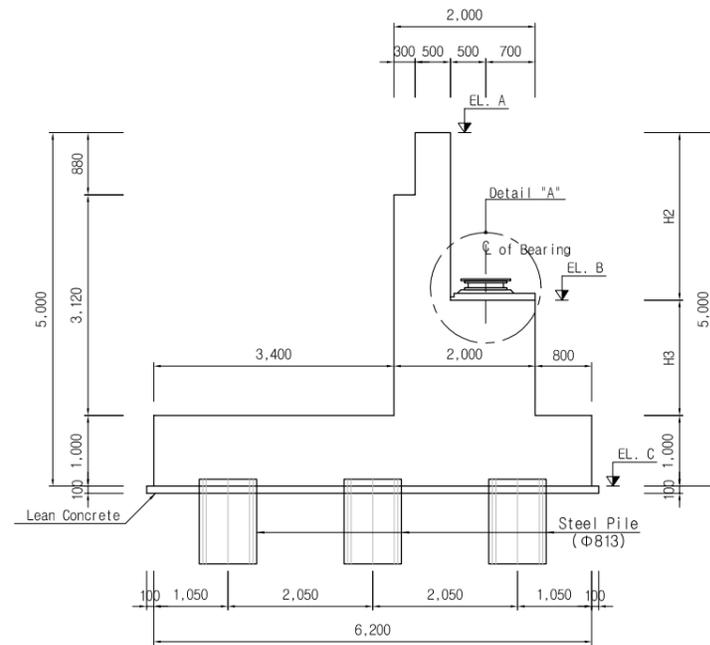
PLAN VIEW

S=1:50



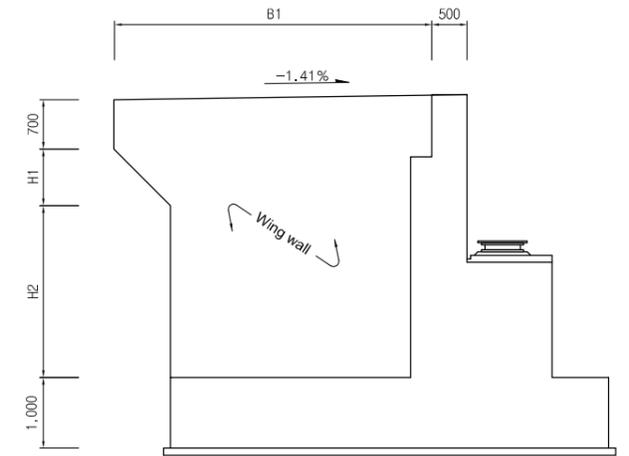
SECTION A-A

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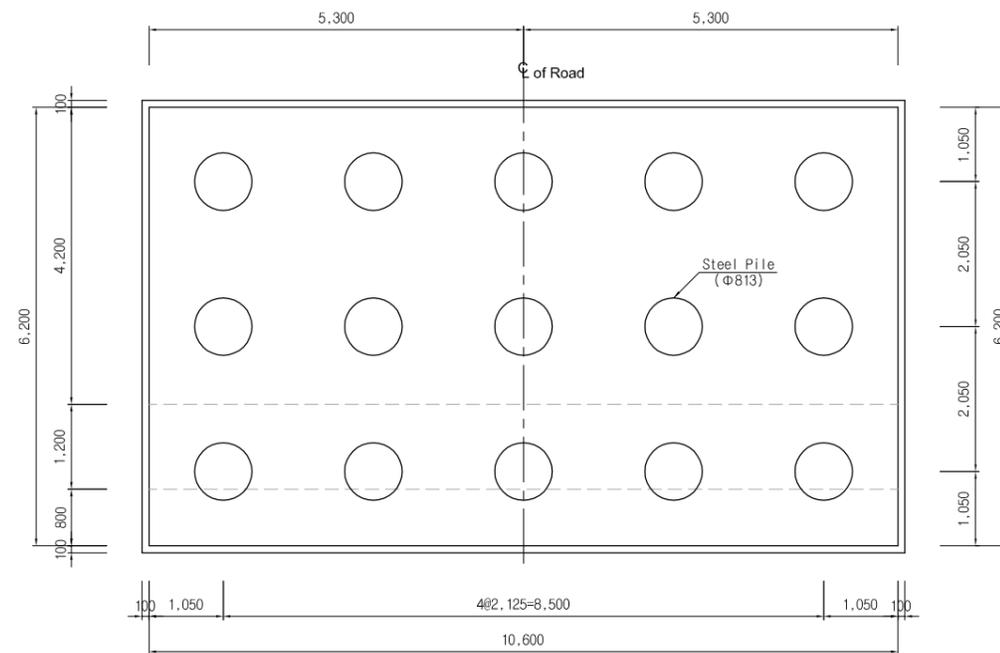
WING WALL SECTION

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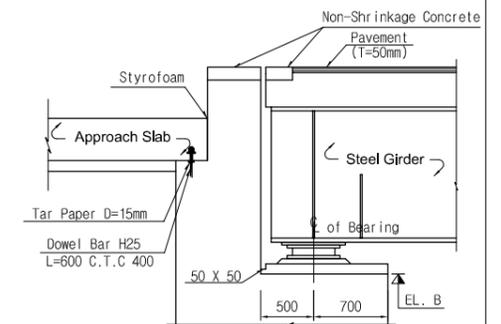
FOUNDATION PLAN VIEW

S=1:50



DETAIL "A"

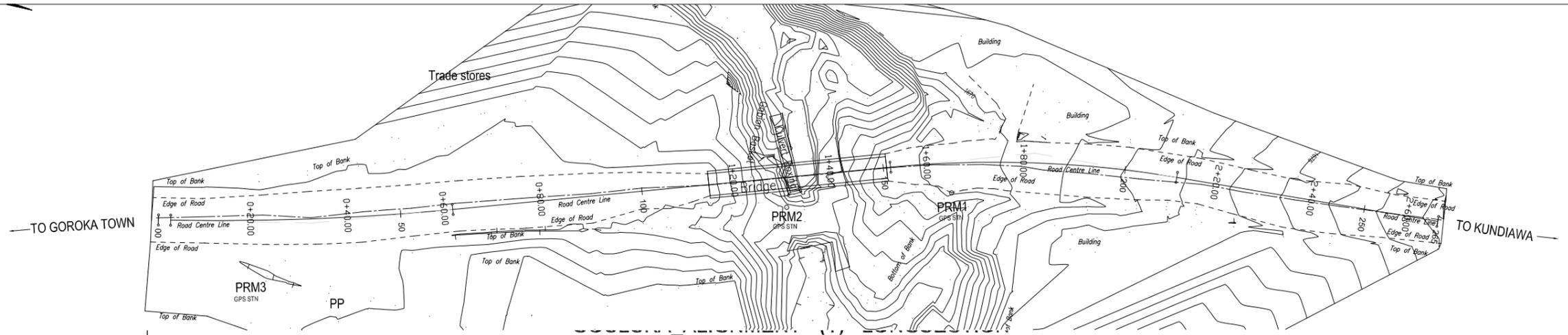
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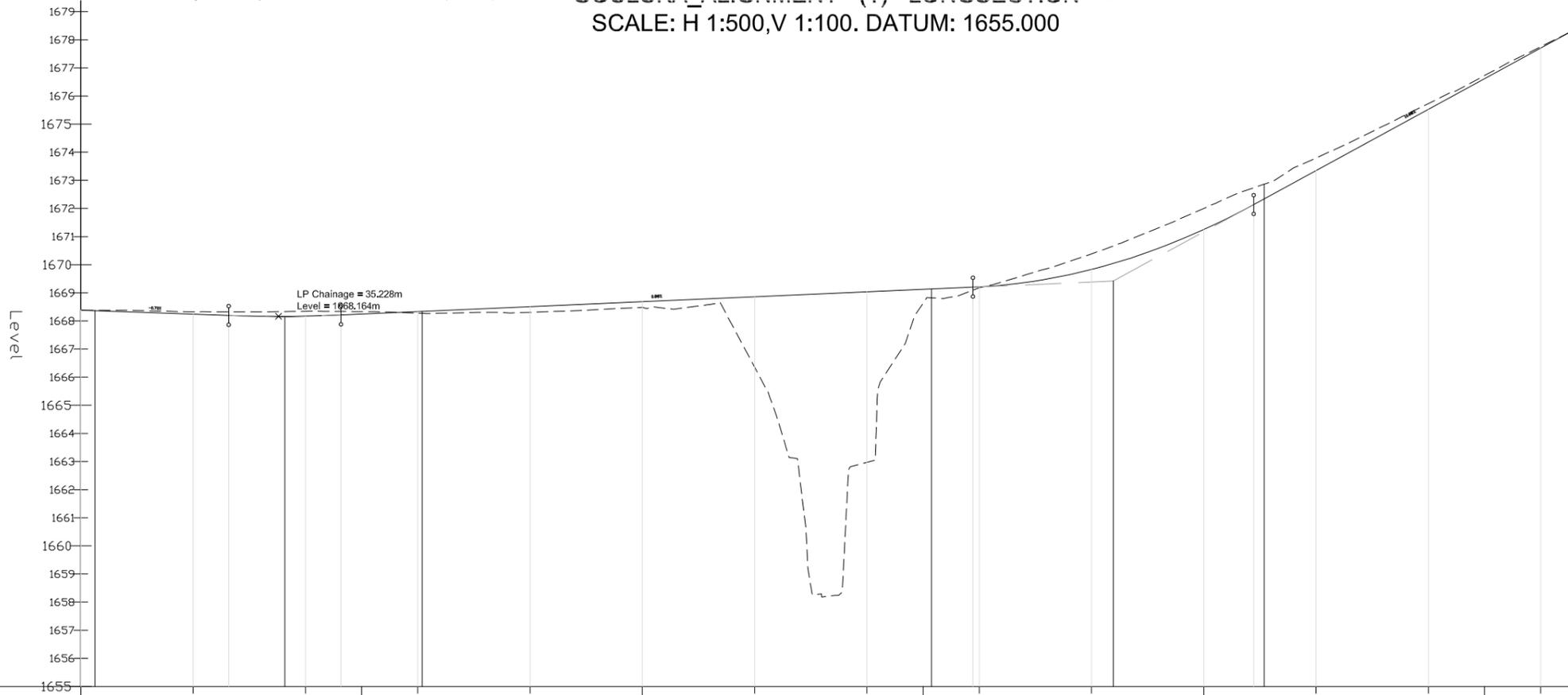
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT		DRAWN	RECOMMENDED	SCALES	AS SHOWN	PROJECT TITLE	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK
					VERTICAL DATUM			PROJECT ENGINEER					
					DATE			M.M. Kim Y.J. Kim I.H. Jang E.J. Oh				ABUTMENT - GENERAL LAYOUT (A1)	DEPARTMENT OF WORKS A1/ NB184
					SURVEY BOOK Nos	PRINCIPAL	Date	PROJECT ENGINEER EXECUTIVE ENGINEER	APPROVED	SECRETARY	SHEET OF	PROJECT No.	AUTOCAD No.

46. Gouluka (Baily Bridge)

PRM4
GPS STN



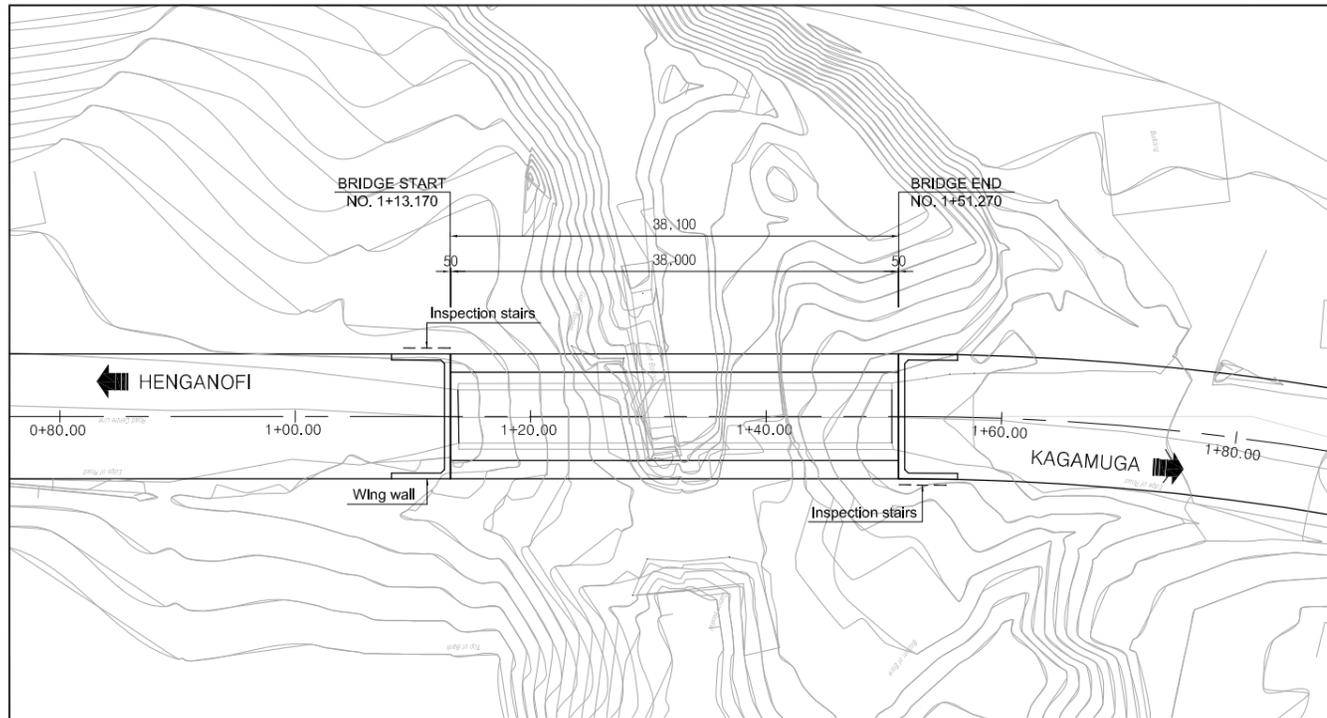
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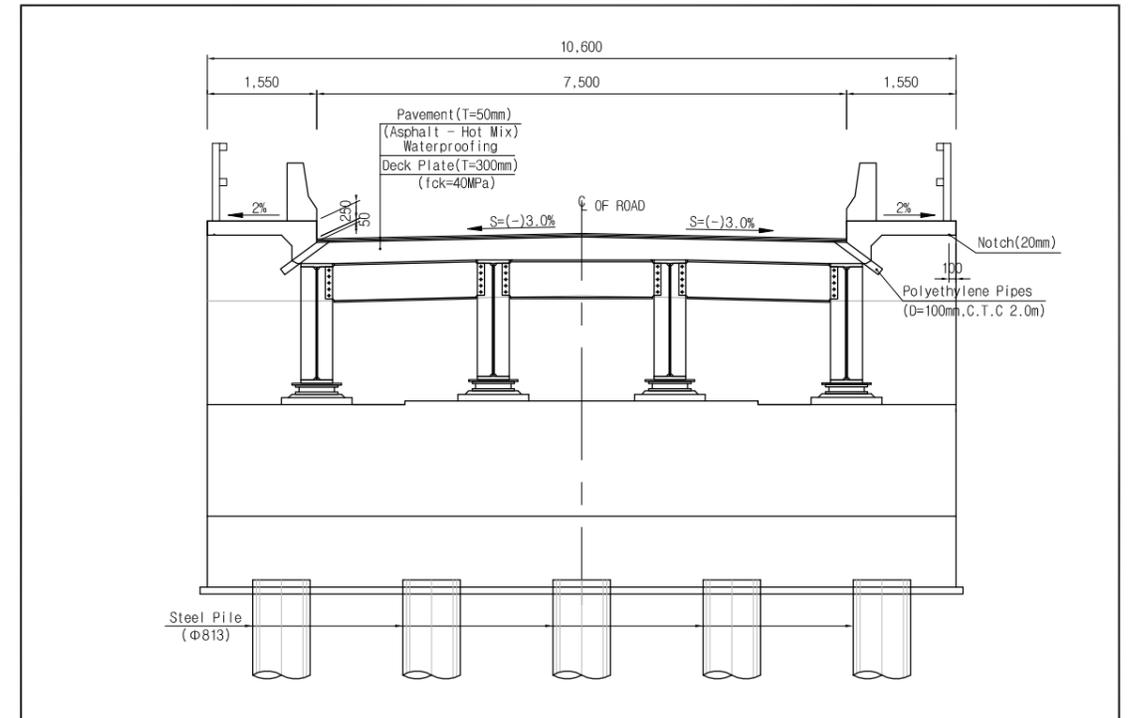
Proposed Levels	1668.381	1668.240	1668.173	1668.245	1668.333	1668.508	1668.684	1668.859	1669.034	1669.122	1669.211	1669.831	1671.252	1673.349	1675.525	1676.613	1677.701	1678.281
Existing Levels	1668.381	1668.323	1668.343	1668.331	1668.274	1668.306	1668.485	1666.354	1662.989	1666.630	1669.180	1670.382	1672.001	1673.787	1675.732	1676.728	1677.754	1678.281
Chainage	00.000	20.000	40.000	50.000	60.000	80.000	100.000	120.000	140.000	150.000	160.000	180.000	200.000	220.000	240.000	250.000	260.000	265.335
Horizontal Geometry	L=2.421		R: 500.000 L: 58.264				L=90.700				R: 225.000 L: 59.257			L=54.593				

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE					
					VERTICAL DATUM		D. VALLIKAY			H 1:1000 V 1:200	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK				
SURVEY BOOK Nos		A. WAZOB	PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE										
						I. JANG	EXECUTIVE ENGINEER	APPROVED	SECRETARY	SHEET OF	PROJECT No.	AUTOCAD No.	PLAN AND PROFILE SHEET - GOULUKA		
													PAPA NEW GUINEA DEPARTMENT OF WORKS	DRAWING No. A1/ AR032	REV.

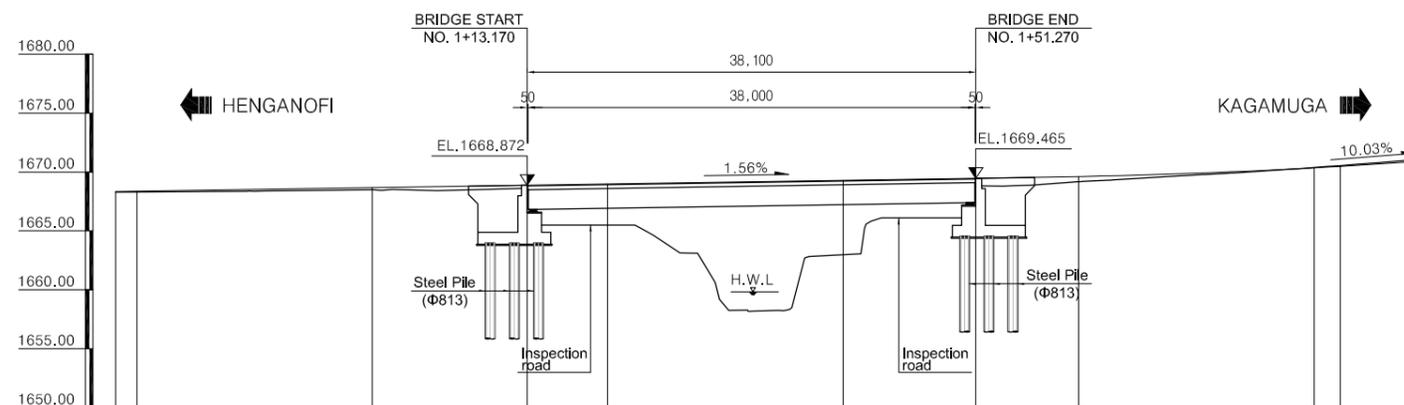
LAYOUT PLAN
S=1:300



CROSS SECTION
S=1:50



LONGITUDINAL ELEVATION
S=1:300



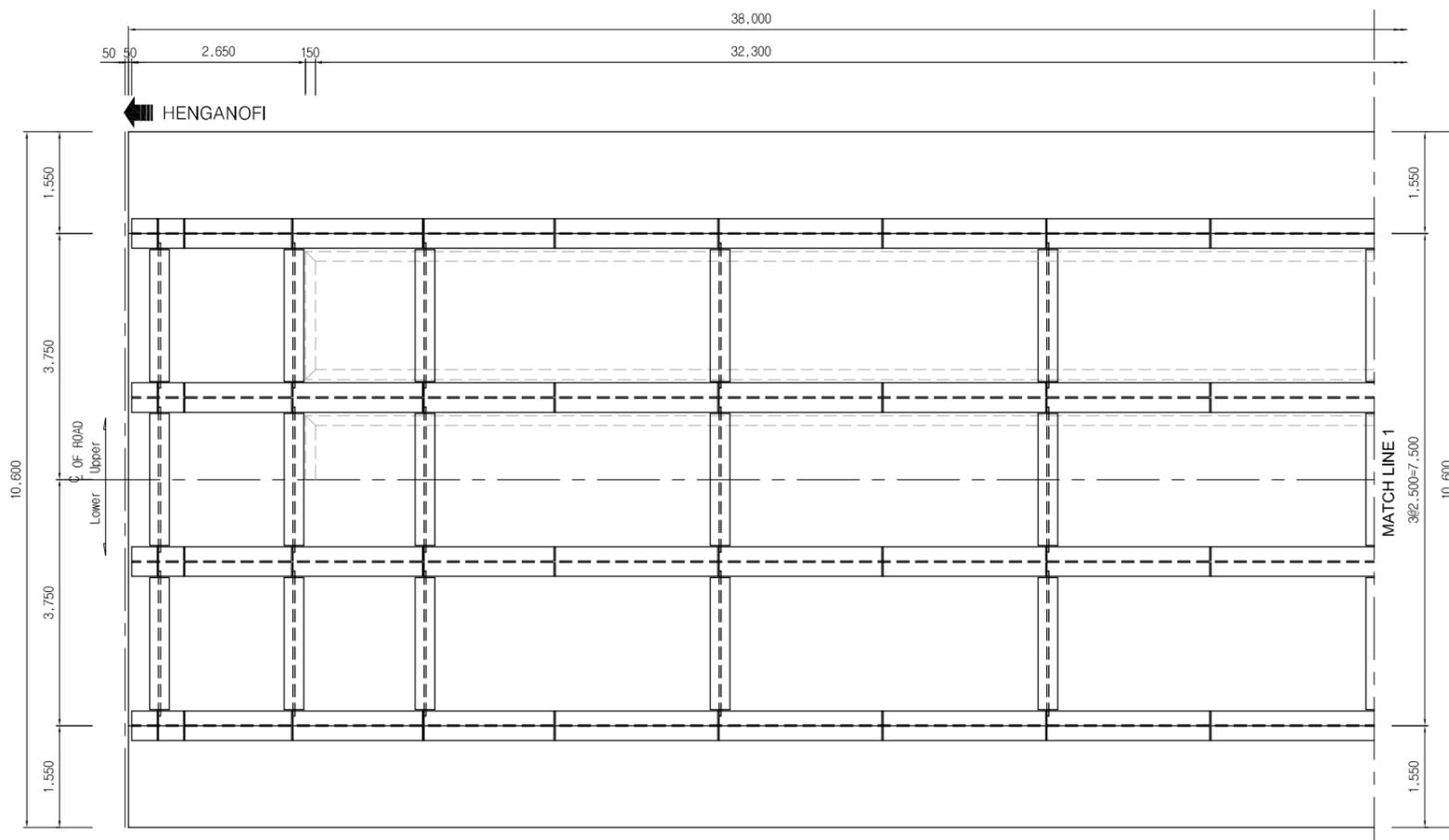
VERTICAL ALIGNMENT	S=1.5600%							
ELEVATION DESIGN LEVEL	1668.36	1668.67	1668.87	1668.98	1669.29	1669.47	1669.61	1670.35
GROUND LEVEL	1668.31	1668.49	1668.63	1666.35	1662.97	1668.82	1669.18	1670.38
STATION	0+80.00	1+00.00	1+13.17	1+20.00	1+40.00	1+51.27	1+60.00	1+80.00

NOTE

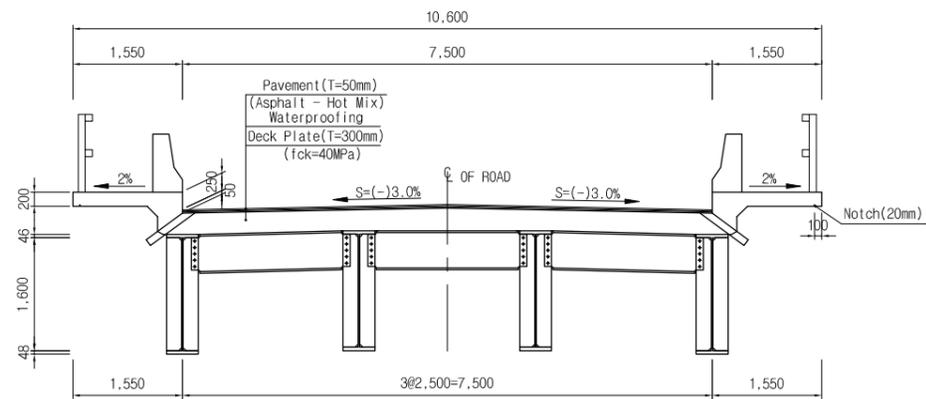
1. The design level of bridge profile standardizes the top level of the bridge pavement.
2. The main materials should be approved by the supervision consultant and/or PMO/DOW before construction.
3. Foundation depth including pile length should be rechecked by contractor with one or more borehole geotechnical investigation in each foundation for proper bearing force. It shall be confirmed by the supervision consultant.
4. 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.
5. 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.
6. Bridge inspection stairs should be installed for the easy maintenance work of girder, bearing and substructure.
7. Foundation scour protection and slope protection in front of abutments should be installed for keeping the foundation stability.
8. 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.
9. Bridge walkway widths at both sides are determined as 1.55m to be considered for the future utilization increase.
10. 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 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		DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS
					SURVEY BOOK Nos		CHECKED E.J. Oh	EXECUTIVE ENGINEER	SECRETARY	SHEET OF

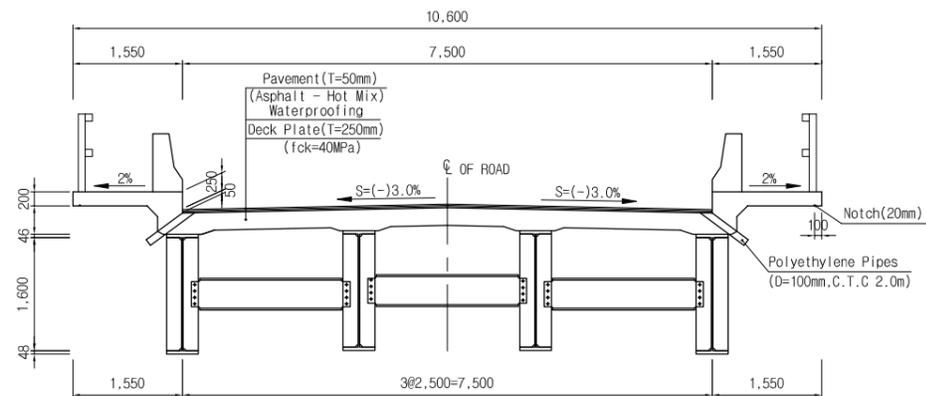
PLAN VIEW



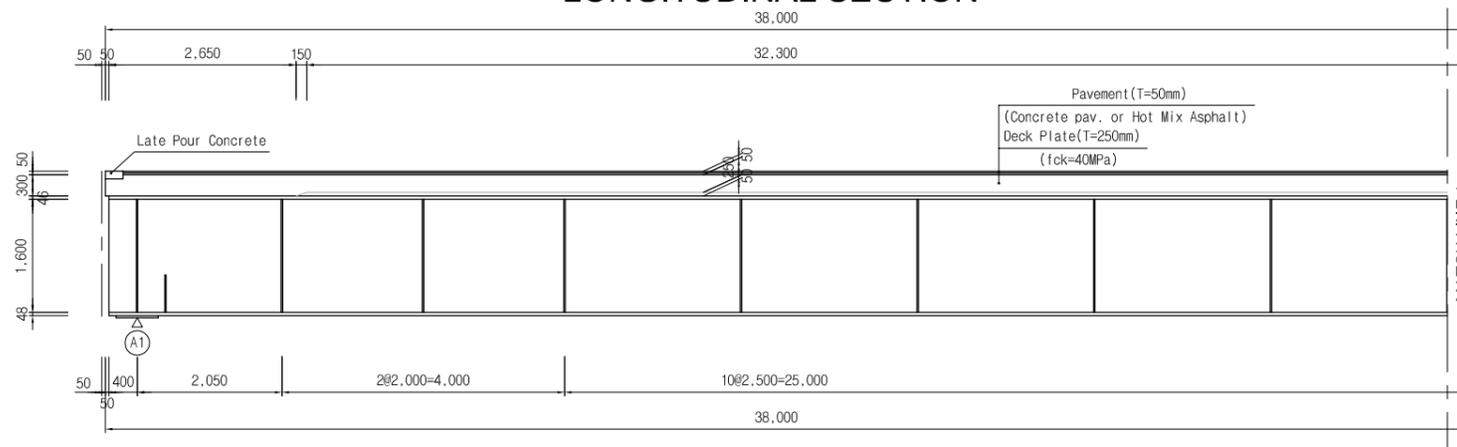
END PART SECTION



MID PART SECTION

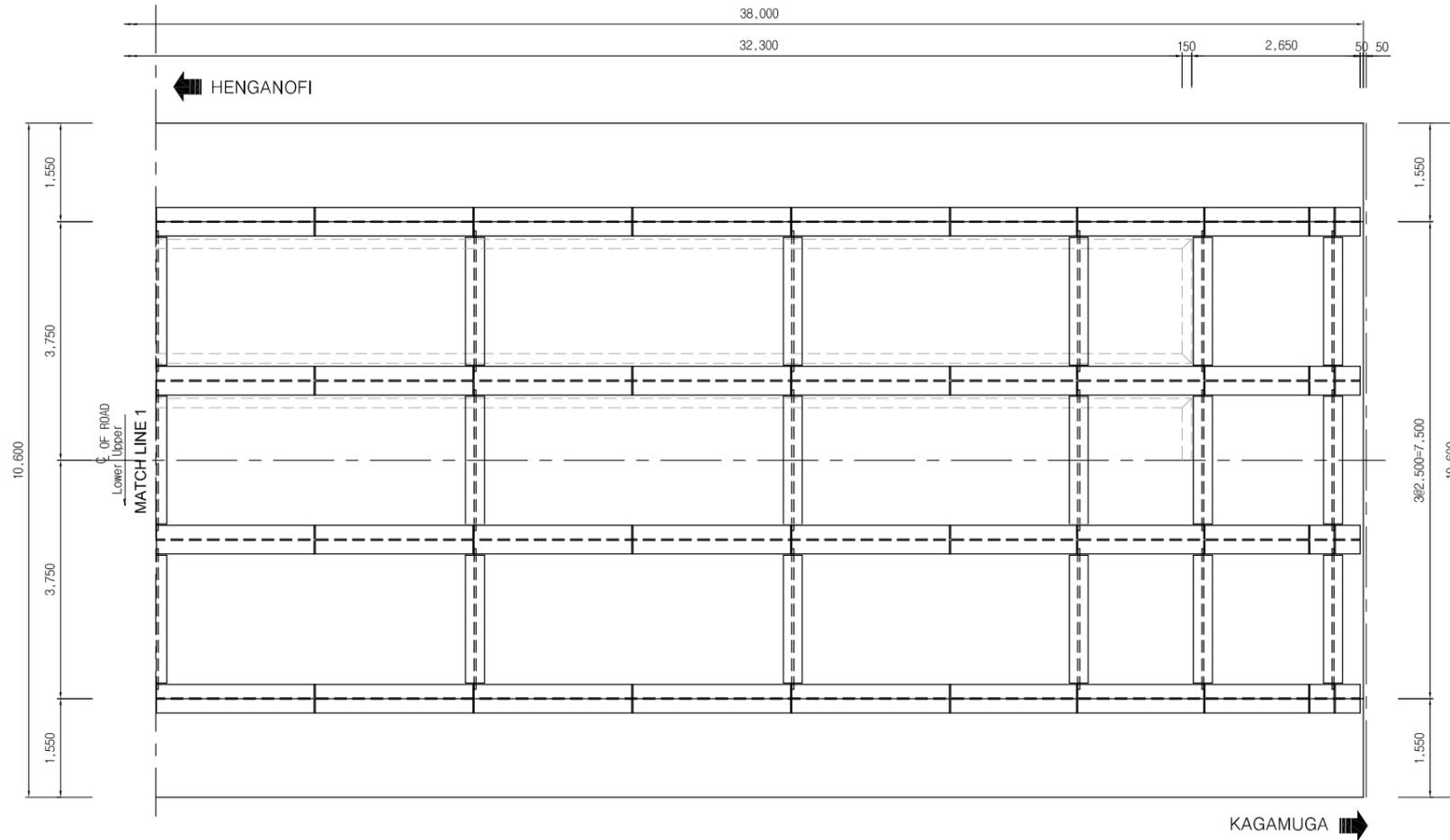


LONGITUDINAL SECTION

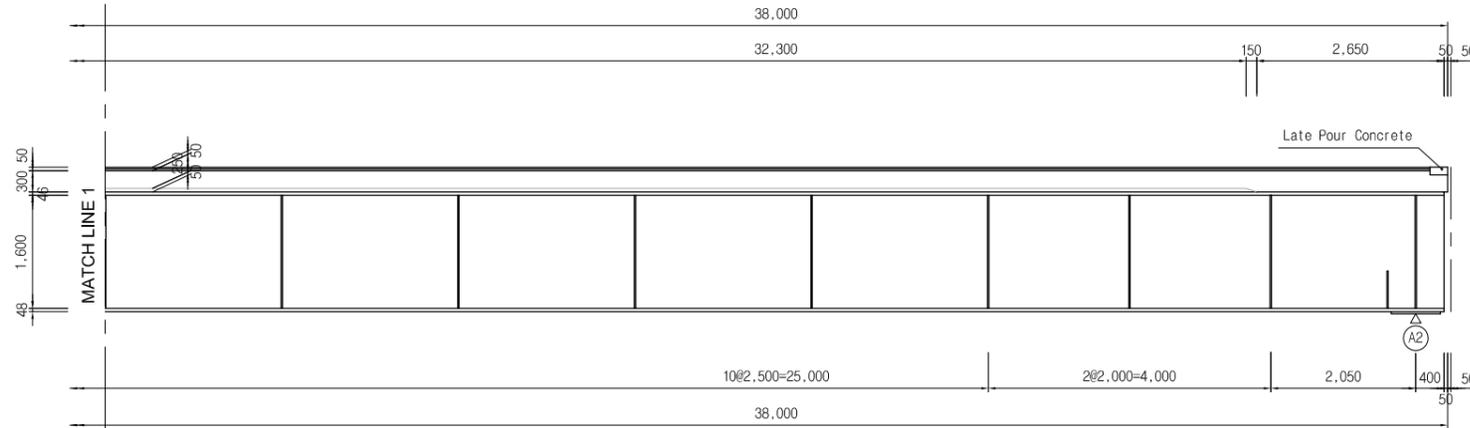


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1 : 50	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J.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

PLAN VIEW

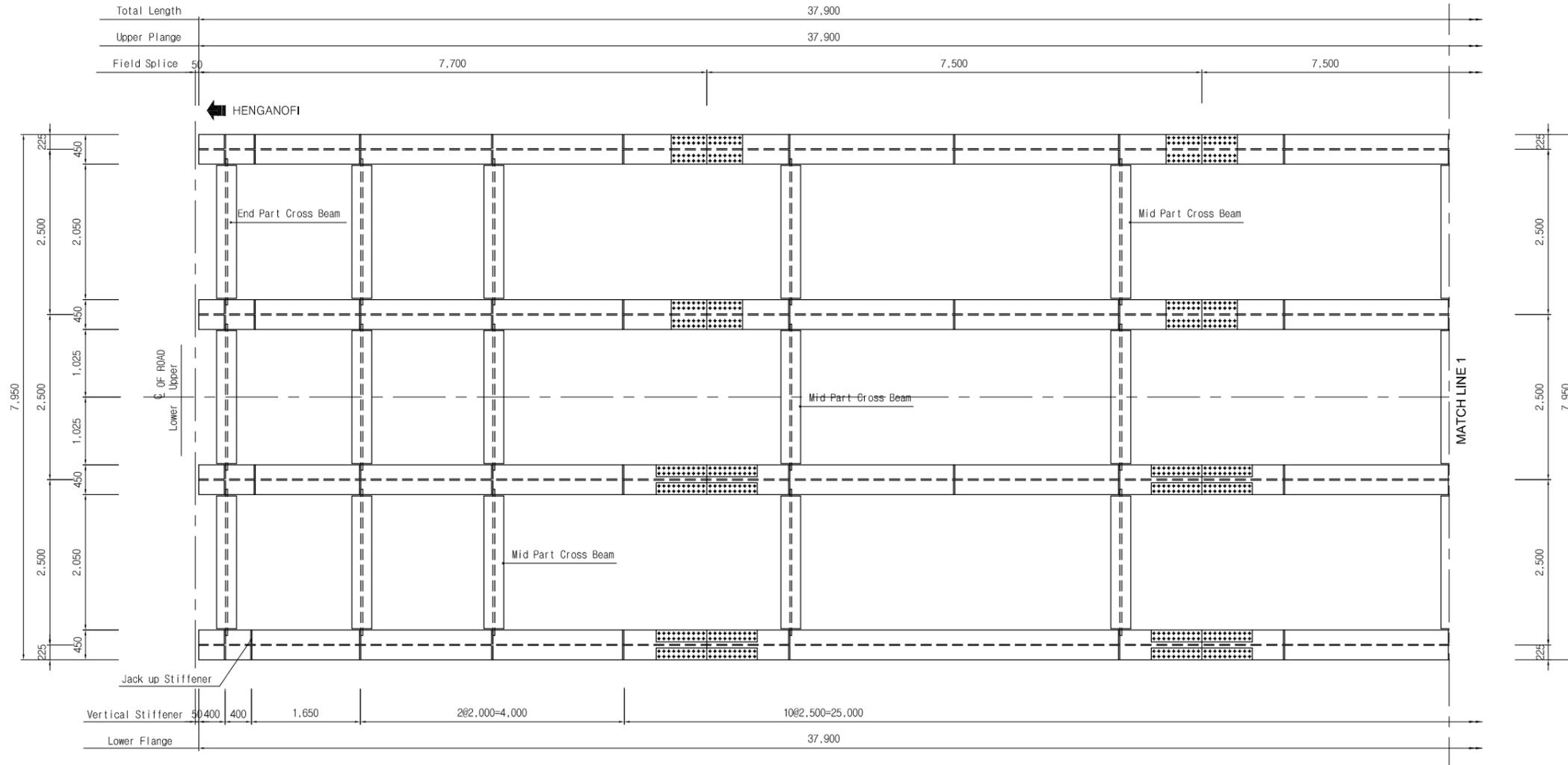


LONGITUDINAL SECTION

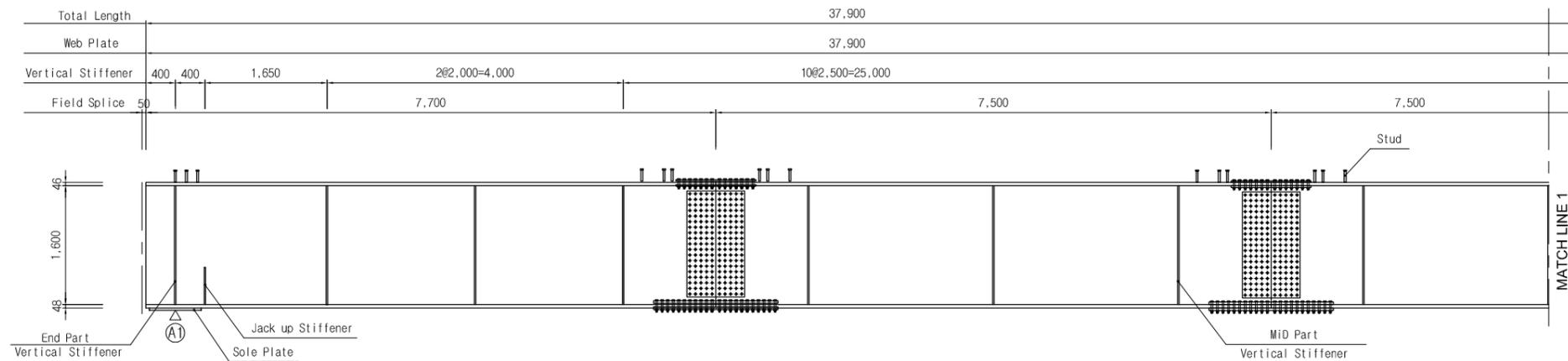


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1 : 50	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK			
					VERTICAL DATUM		CHECKED Y.J. Kim	PROJECT ENGINEER		PRINCIPAL ENGINEER	DRAWING TITLE SLAB-GENERAL LAYOUT(2)		
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	PAPUA NEW GUINEA DEPARTMENT OF WORKS
					SURVEY BOOK Nos		PRINCIPAL	CHECKED E.J. Oh	EXECUTIVE ENGINEER	SECRETARY			

PLAN VIEW

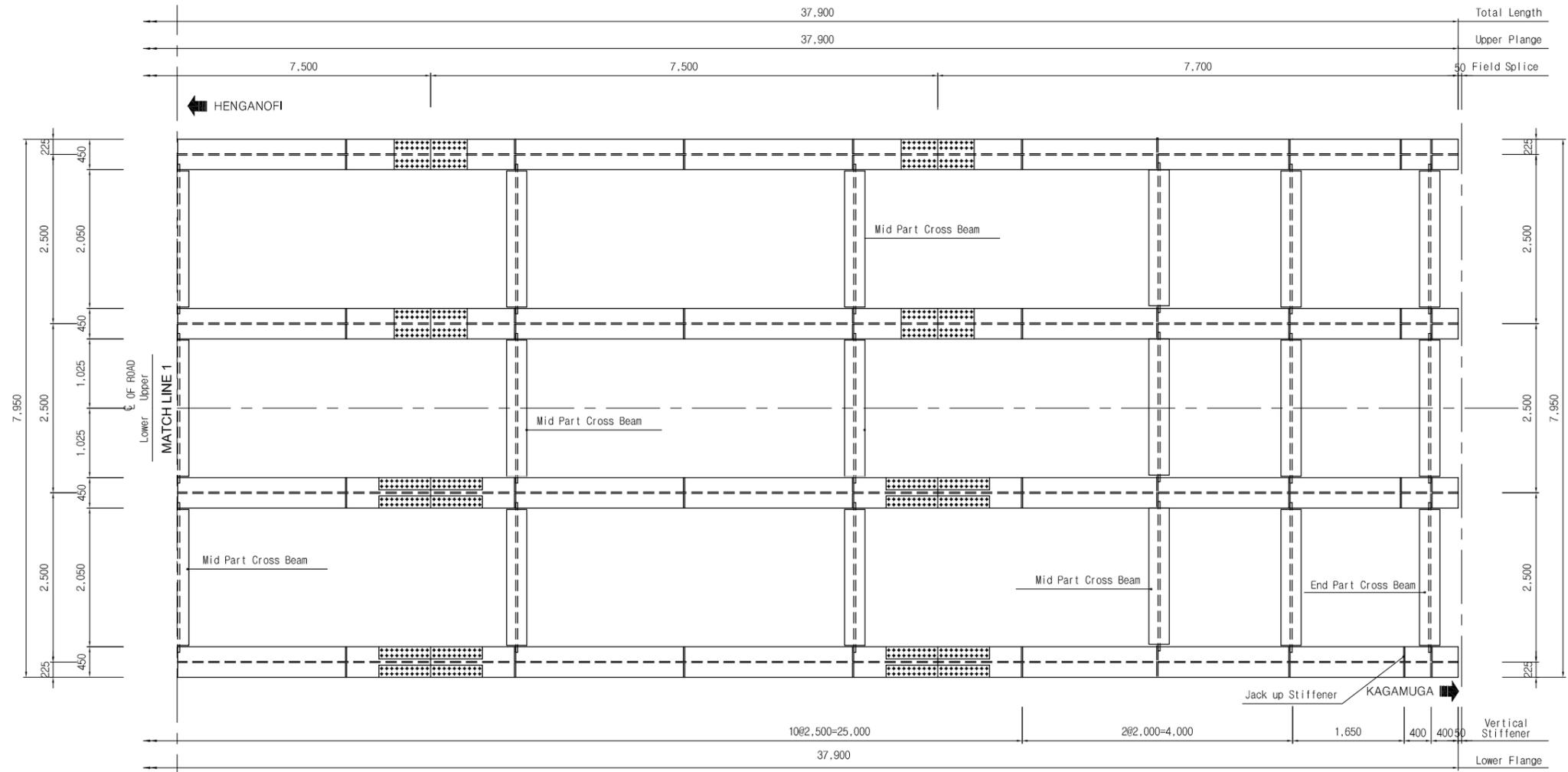


LONGITUDINAL SECTION

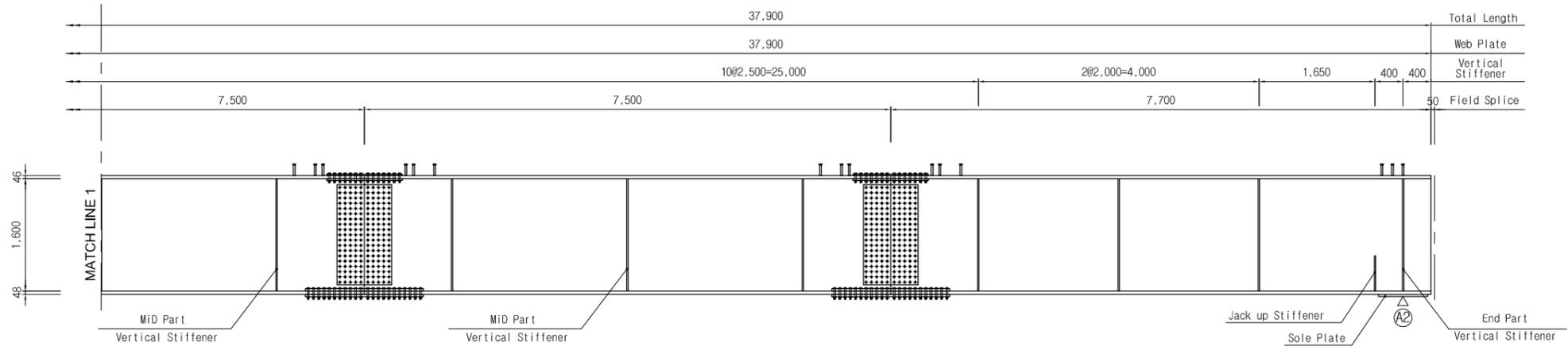


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J.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

PLAN VIEW

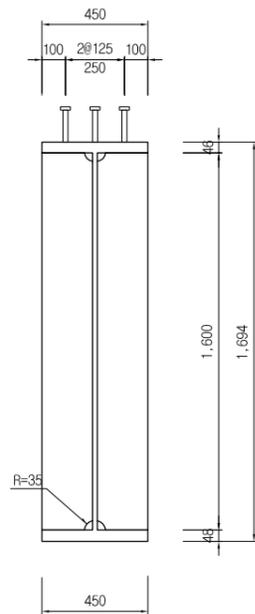


LONGITUDINAL SECTION



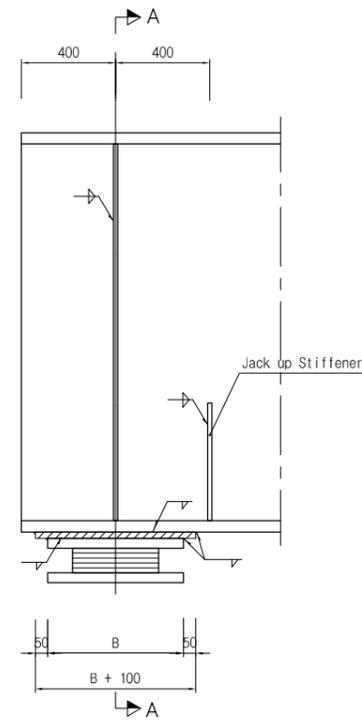
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER - GENERAL LAYOUT(2)
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. DEPARTMENT OF WORKS A1/ NB190	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

STEEL GIRDER DETAIL

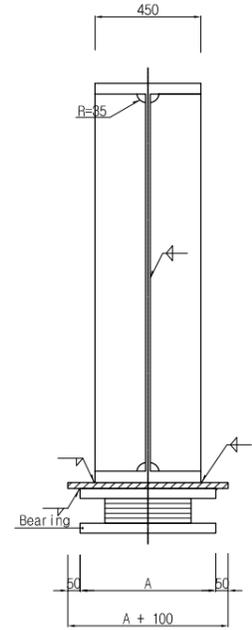


(Per 1ea)
 PL-450X46X37,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-1,600X20X37,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X46X37,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

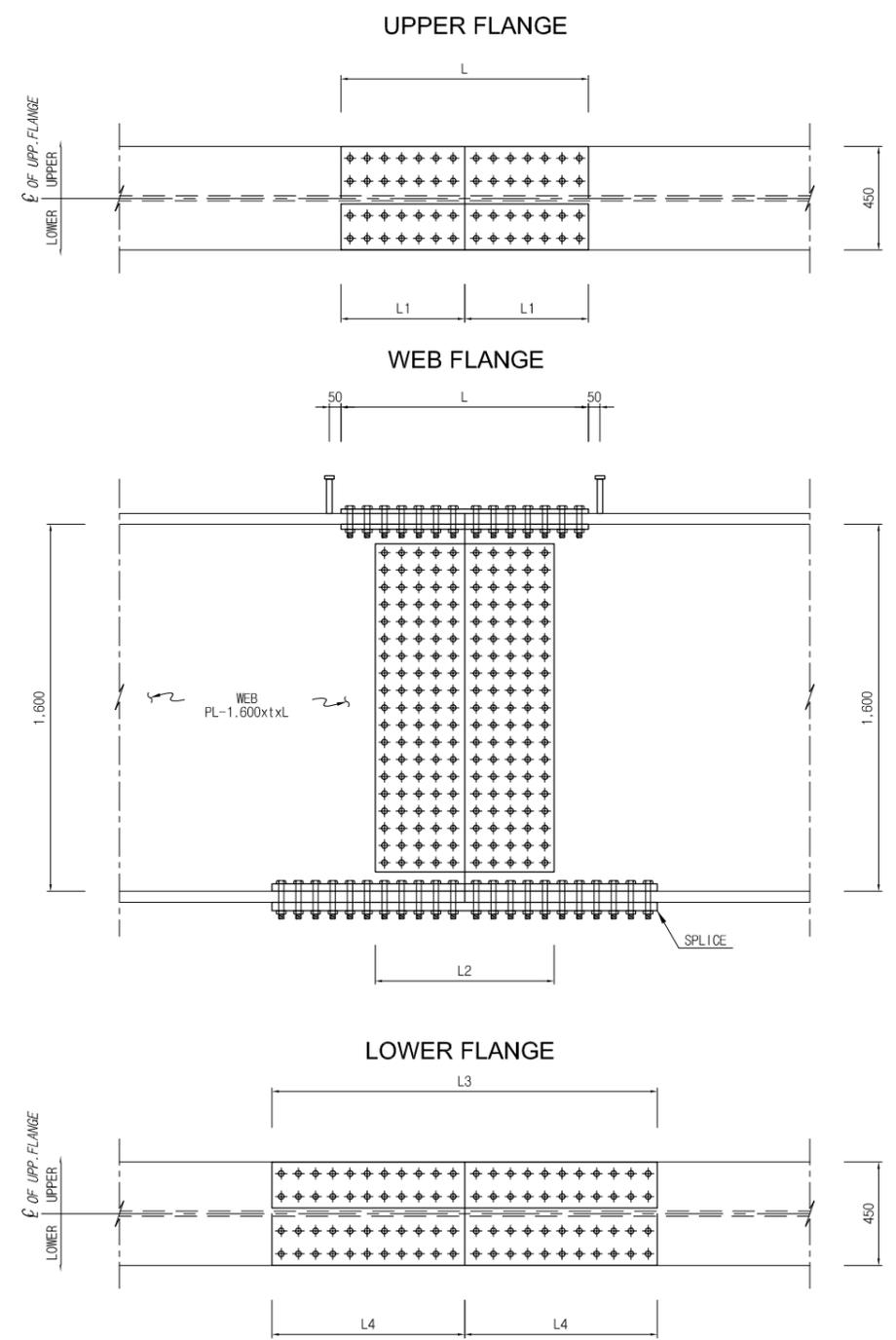
END PART DETAIL



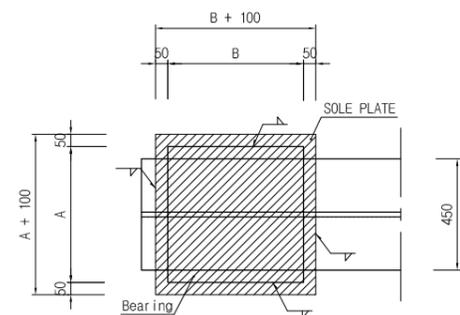
SECTION A-A



SPLICE DETAILS

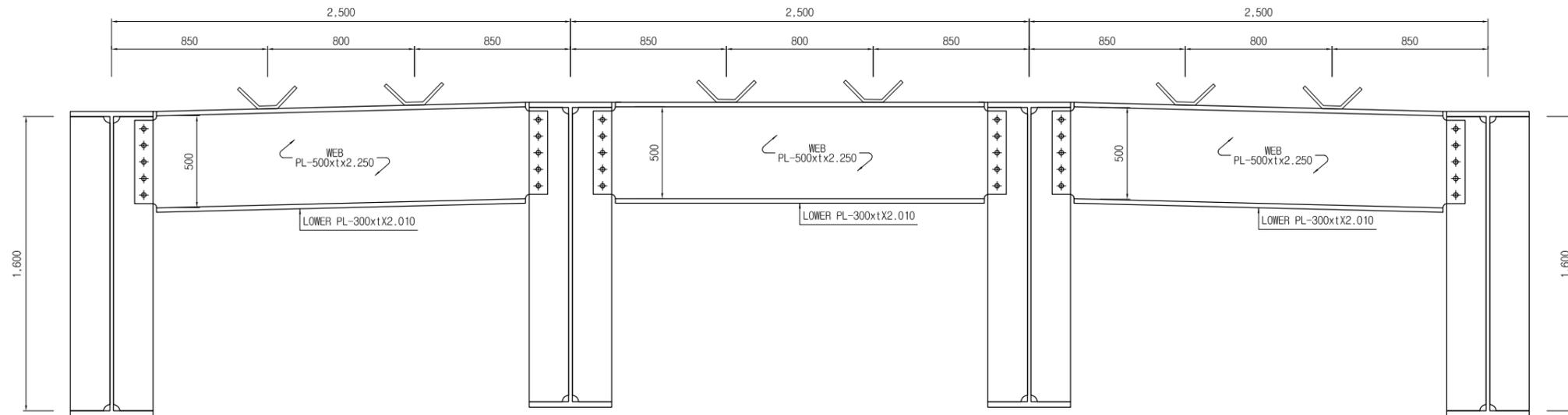


END PART PLAN VIEW

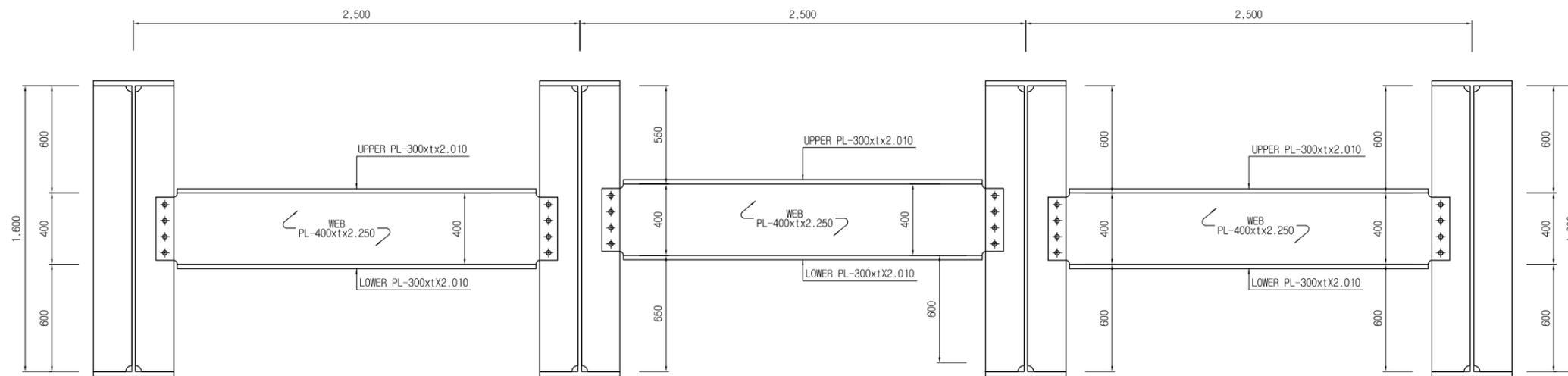


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB191	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

END CROSS BEAM AT ABUTMENT



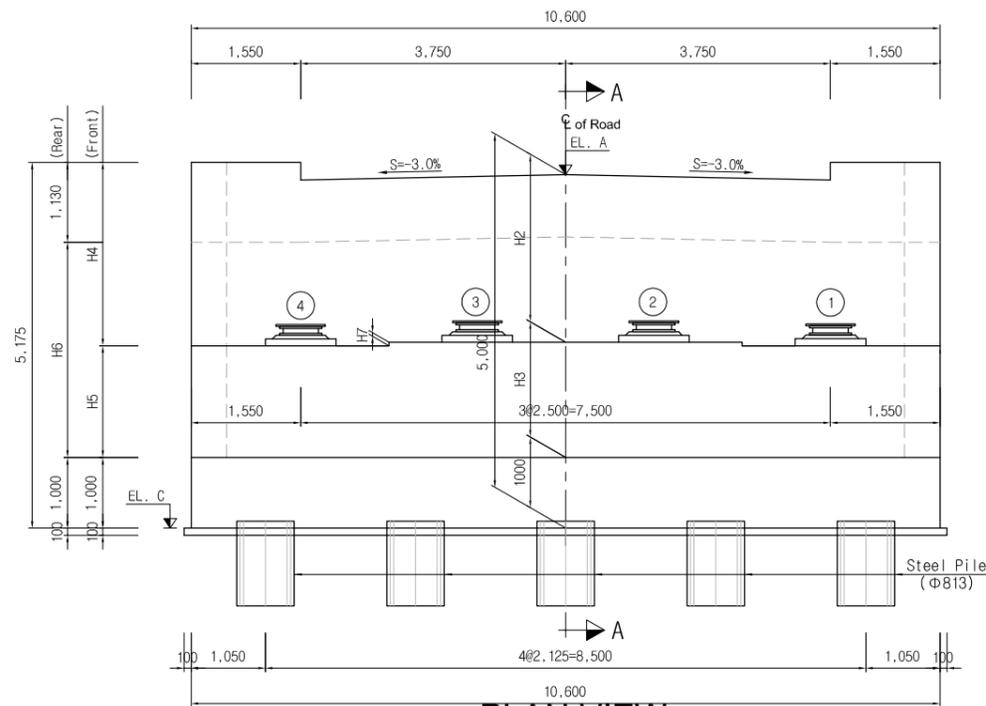
TYPICAL INTERMEDIATE CROSS BEAM DETAILS



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/ NB192	
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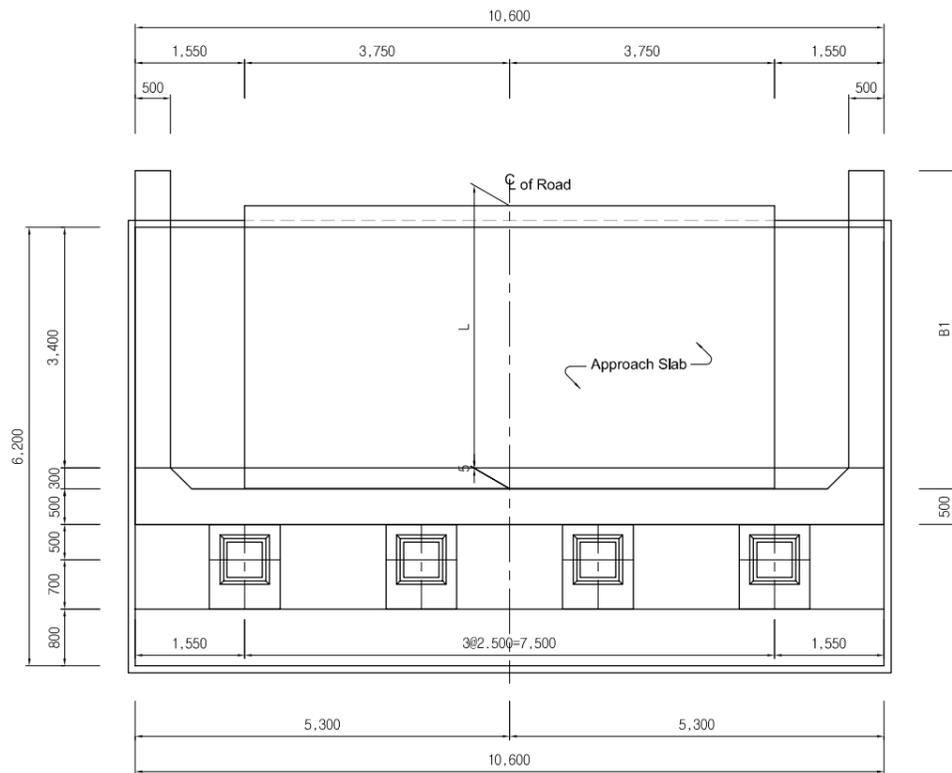
FRONT VIEW

S=1:50



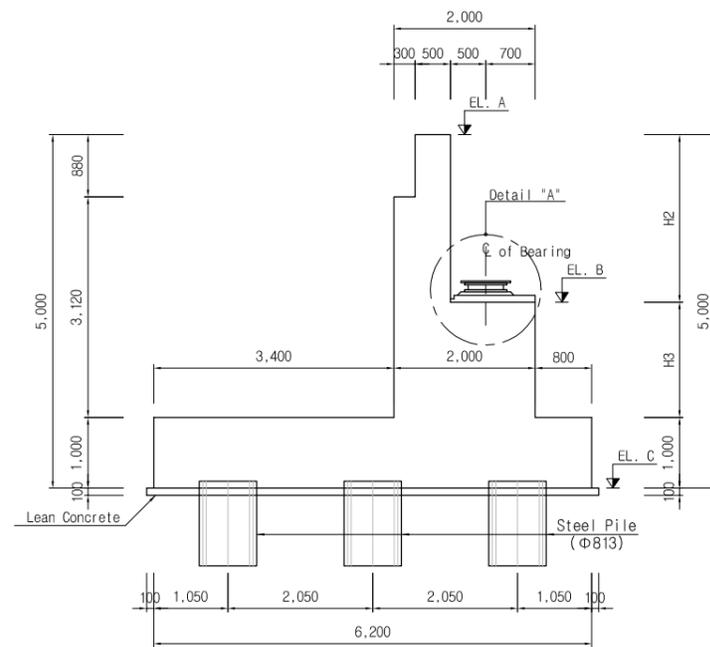
PLAN VIEW

S=1:50



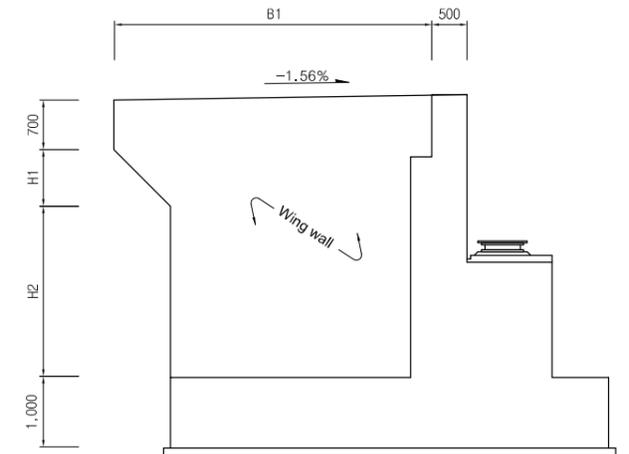
SECTION A-A

S=1:50



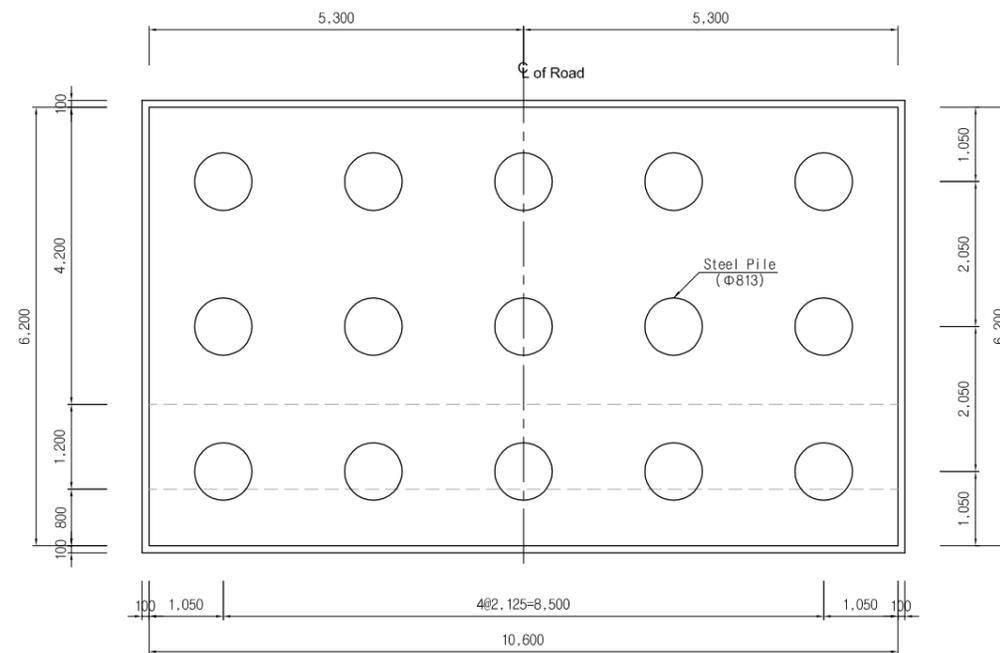
WING WALL SECTION

S=1:50



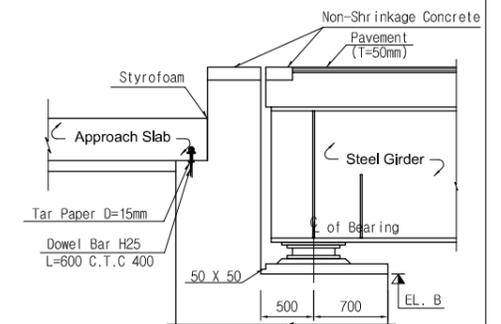
FOUNDATION PLAN VIEW

S=1:50



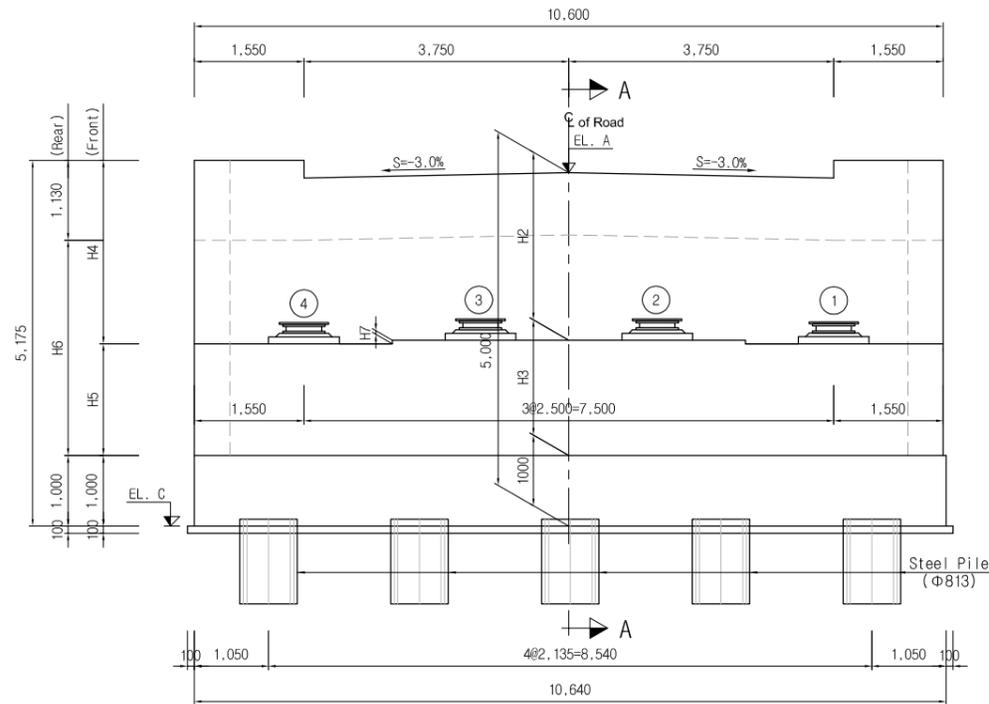
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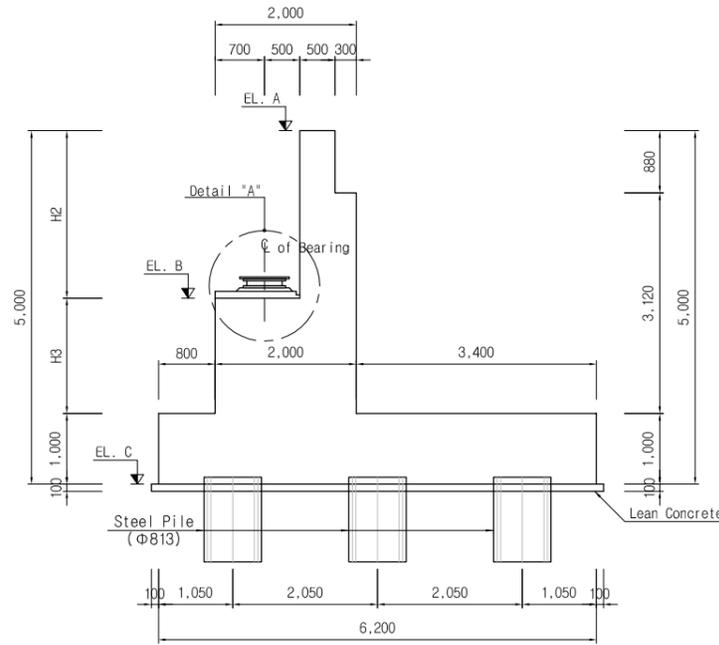


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT		DRAWN	RECOMMENDED	SCALES	PROJECT TITLE	DRAWING TITLE	PAPUA NEW GUINEA	DRAWING No.	REV.
					VERTICAL DATUM			DESIGNED							
					Date		Date	M.M. Kim CHECKED Y.J. Kim DESIGNED I.H. Jang CHECKED E.J. Oh	PRINCIPAL ENGINEER APPROVED EXECUTIVE ENGINEER	SHEET OF PROJECT No. AUTOCAD No.	ABUTMENT - GENERAL LAYOUT (A1)	A1/ NB193			

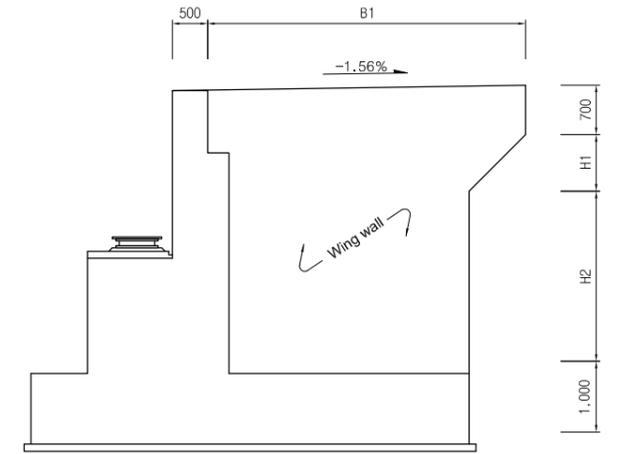
FRONT VIEW
S=1:50



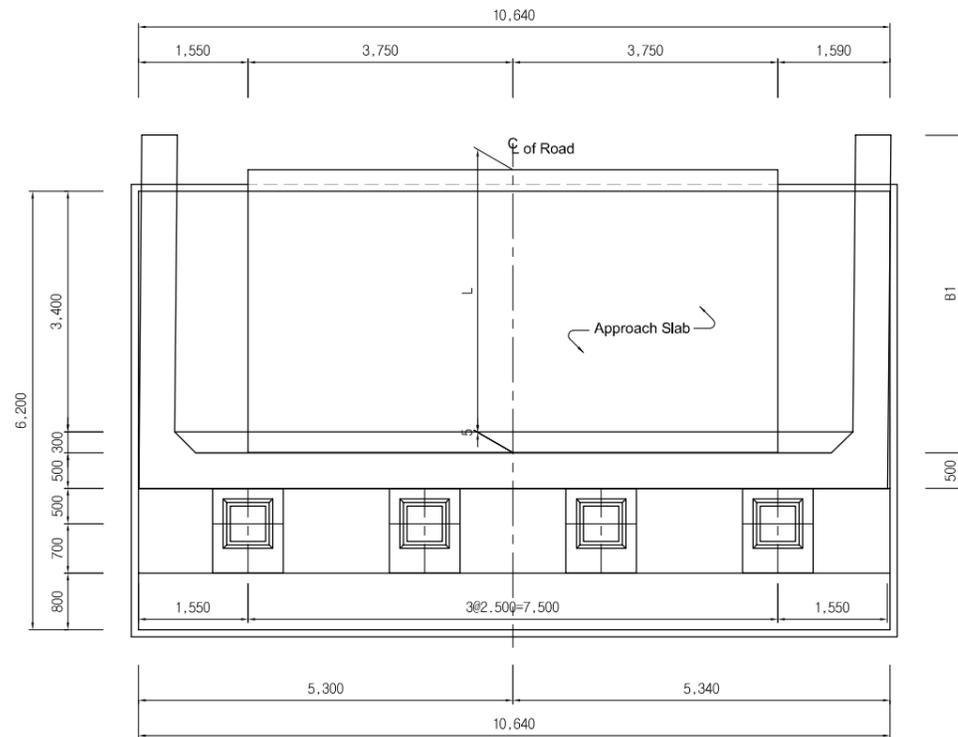
SECTION A-A
S=1:50



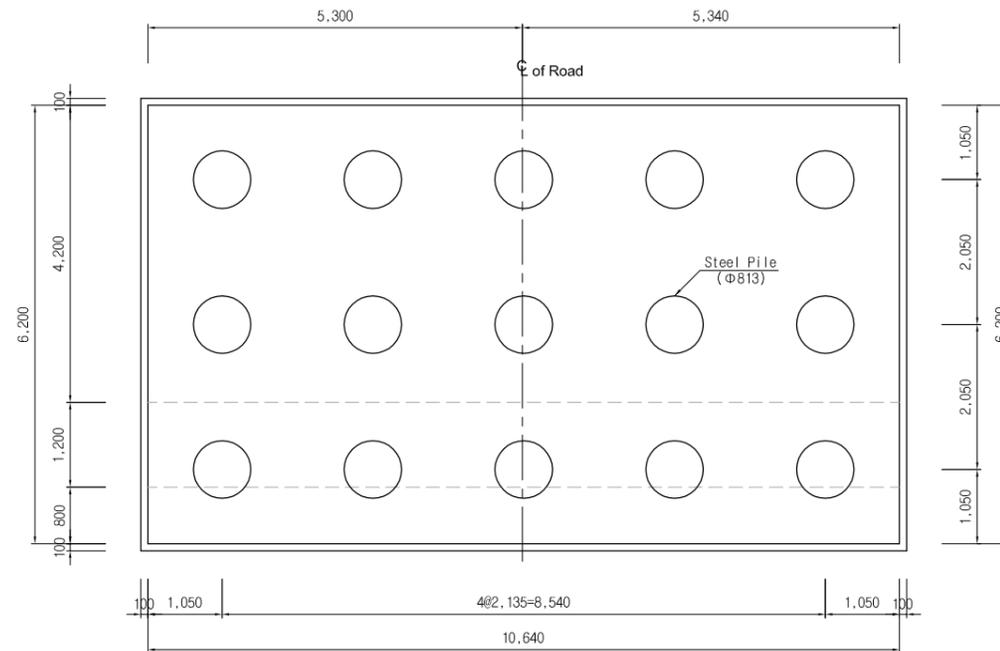
WING WALL SECTION
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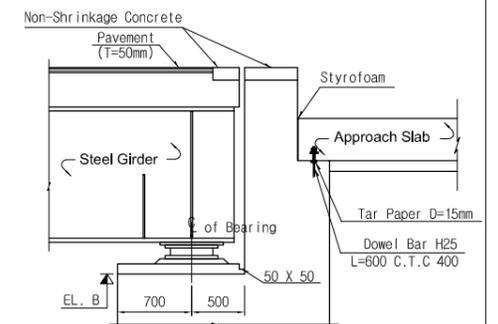
PLAN VIEW
S=1:50



FOUNDATION PLAN VIEW
S=1:50



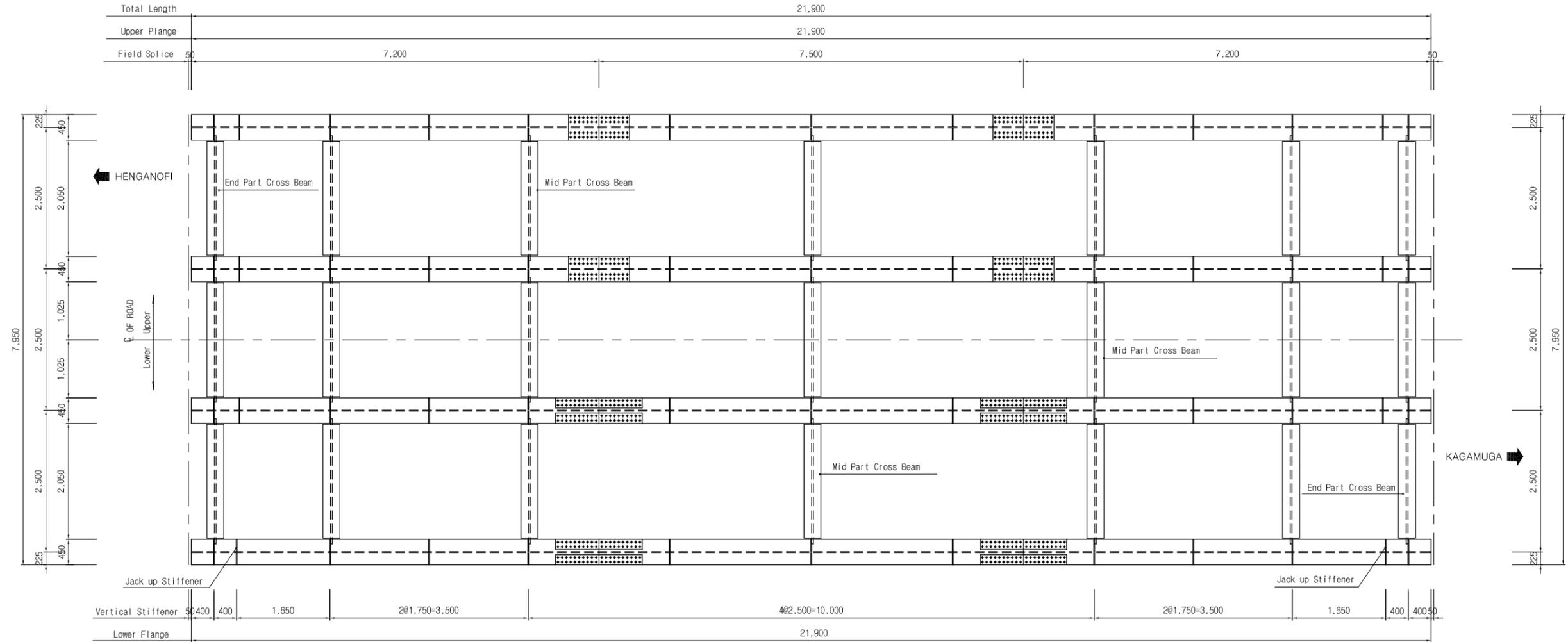
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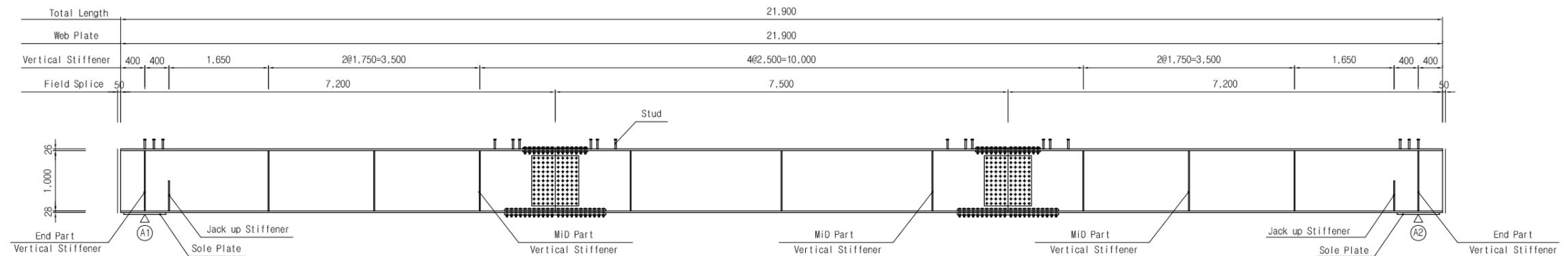
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					VERTICAL DATUM			DESIGNED							
					Date		Date	 M.M. Kim	APPROVED	PRINCIPAL ENGINEER	PROJECT No.	AUTOCAD No.	PAPUA NEW GUINEA	A1/ NB194	
					 Y.J. Kim			EXECUTIVE ENGINEER							
					HORIZONTAL DATUM			 I.H. Jang							
					SURVEY BOOK Nos			 E.J. Oh							

51. Feonoku River Bridge

PLAN VIEW

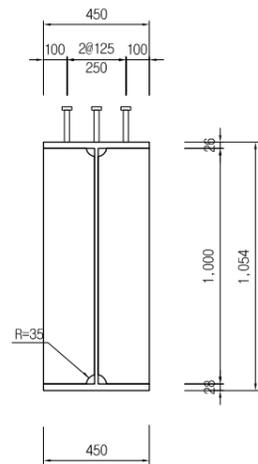


LONGITUDINAL SECTION



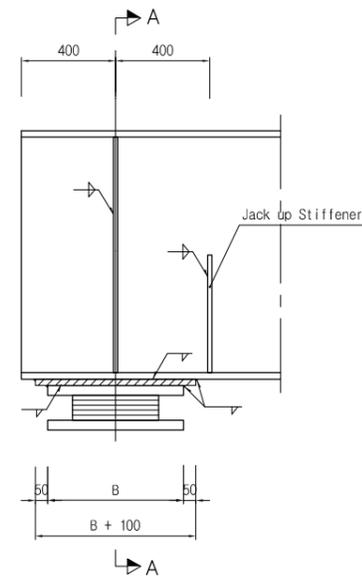
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT 	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:40	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK					
					Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER - GENERAL LAYOUT			
					VERTICAL DATUM	PRINCIPAL Date	DESIGNED I.H. Jang	APPROVED	SECRETARY	SHEET	OF	PROJECT No.	AUTOCAD No.	DRAWING No.	REV.
					HORIZONTAL DATUM		CHECKED E.J. Oh			EXECUTIVE ENGINEER	DEPARTMENT OF WORKS	A1/ NB197			

STEEL GIRDER DETAIL

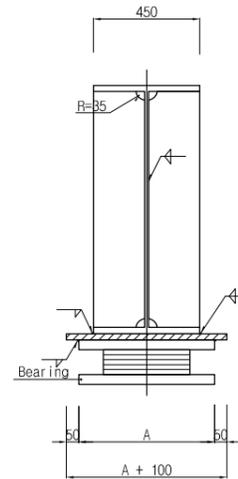


(Per 1ea)
 PL-450X26X21,900X1EA (SM420) - MAIN GIRDER UPP. FLANGE
 PL-1,000X16X21,900X1EA (SM420) - MAIN GIRDER WEB
 PL-450X26X21,900X1EA (SM420) - MAIN GIRDER LOW. FLANGE

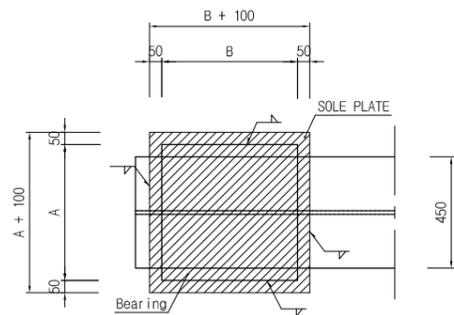
END PART DETAIL



SECTION A-A

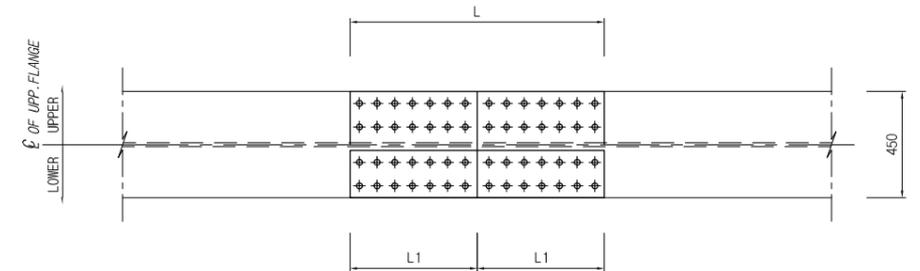


END PART PLAN VIEW

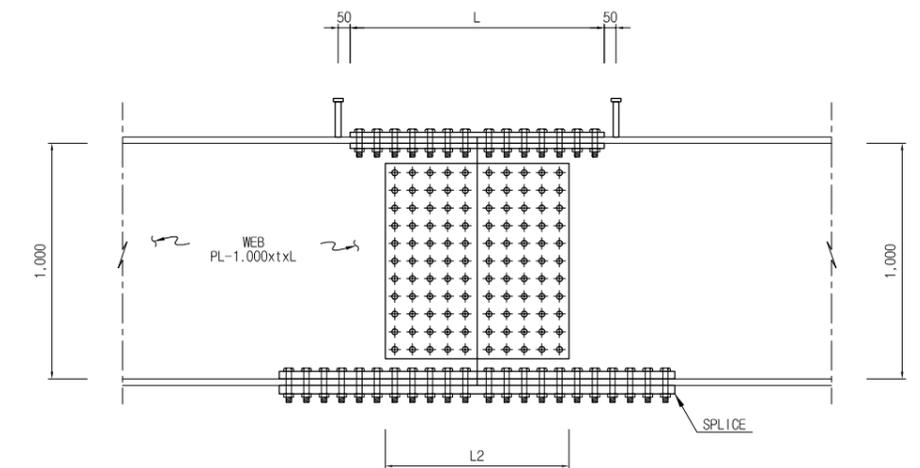


SPLICE DETAILS

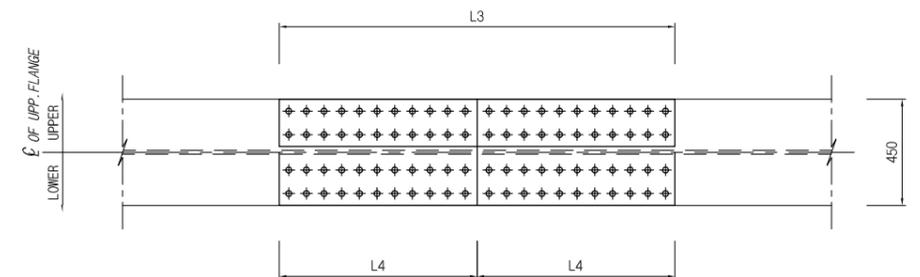
UPPER FLANGE



WEB FLANGE

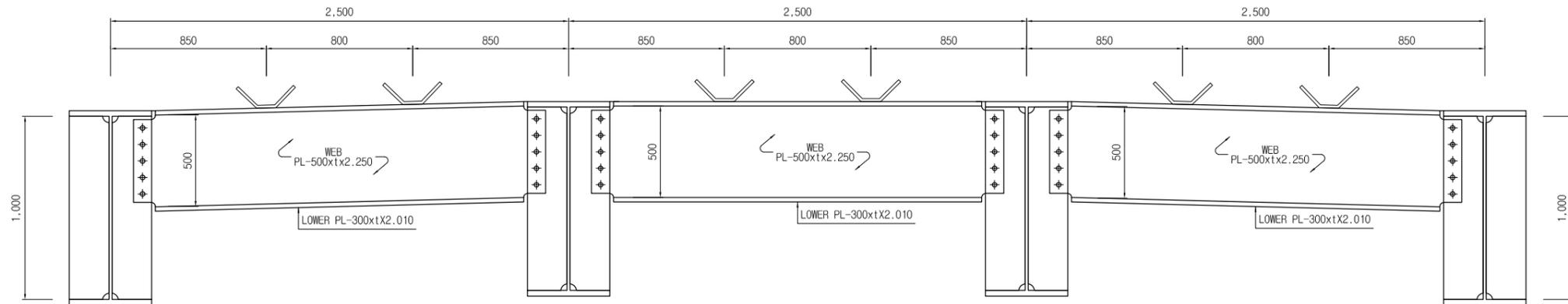


LOWER FLANGE

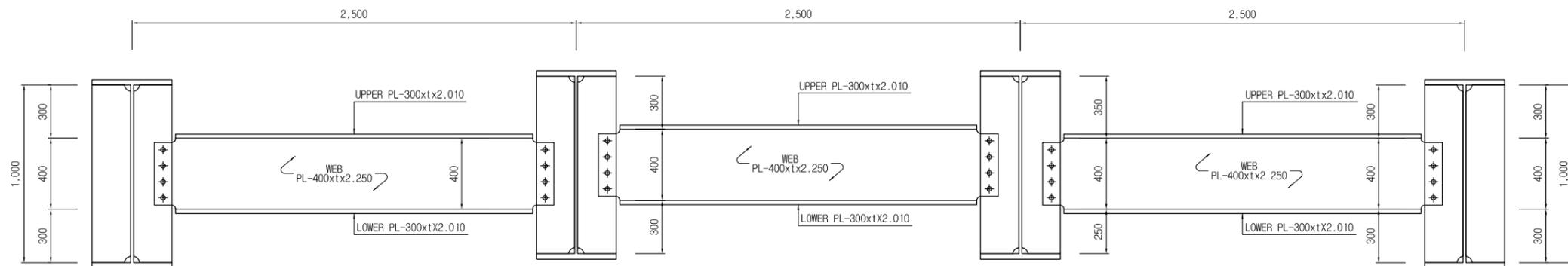


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER	DRAWING TITLE STEEL GIRDER DETAILS
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.	DRAWING No. PAPUA NEW GUINEA DEPARTMENT OF WORKS A1/ NB198	
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER				SECRETARY	SHEET OF

END CROSS BEAM AT ABUTMENT

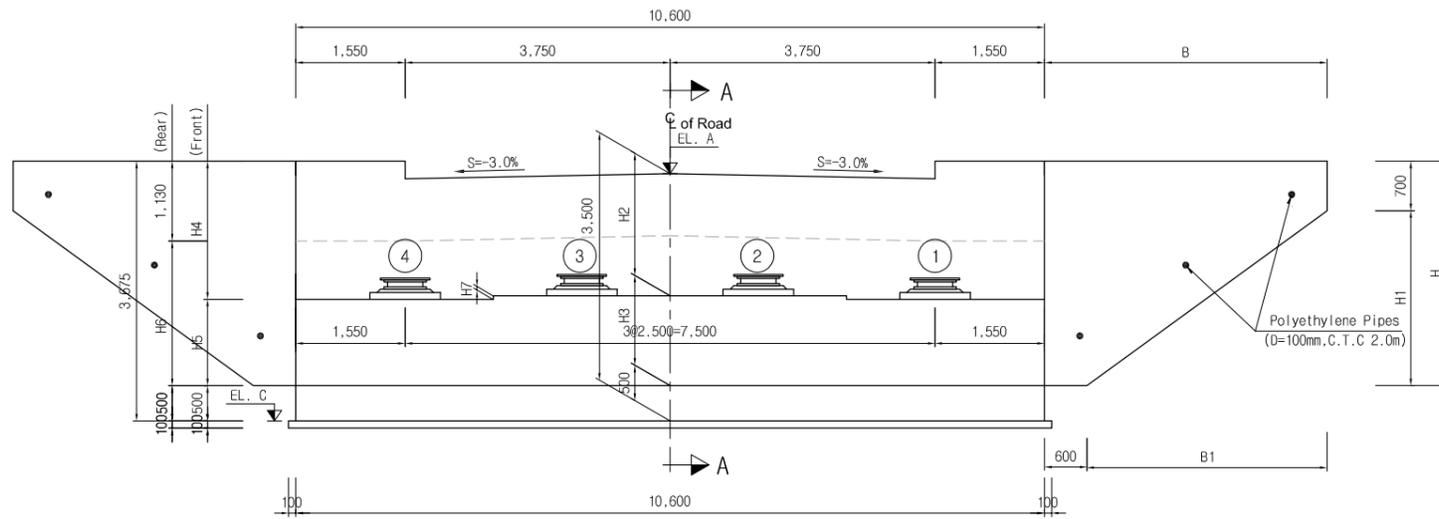


TYPICAL INTERMEDIATE CROSS BEAM DETAILS

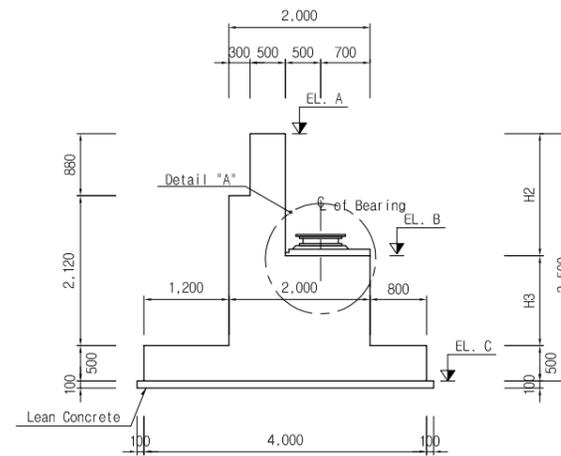


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1:15	PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					VERTICAL DATUM Date		CHECKED Y.J. 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/ NB199	
				SURVEY BOOK Nos	PRINCIPAL Date		CHECKED E.J. Oh				EXECUTIVE ENGINEER	SECRETARY

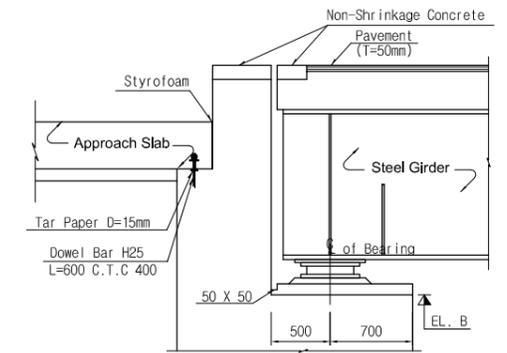
FRONT VIEW
S=1:50



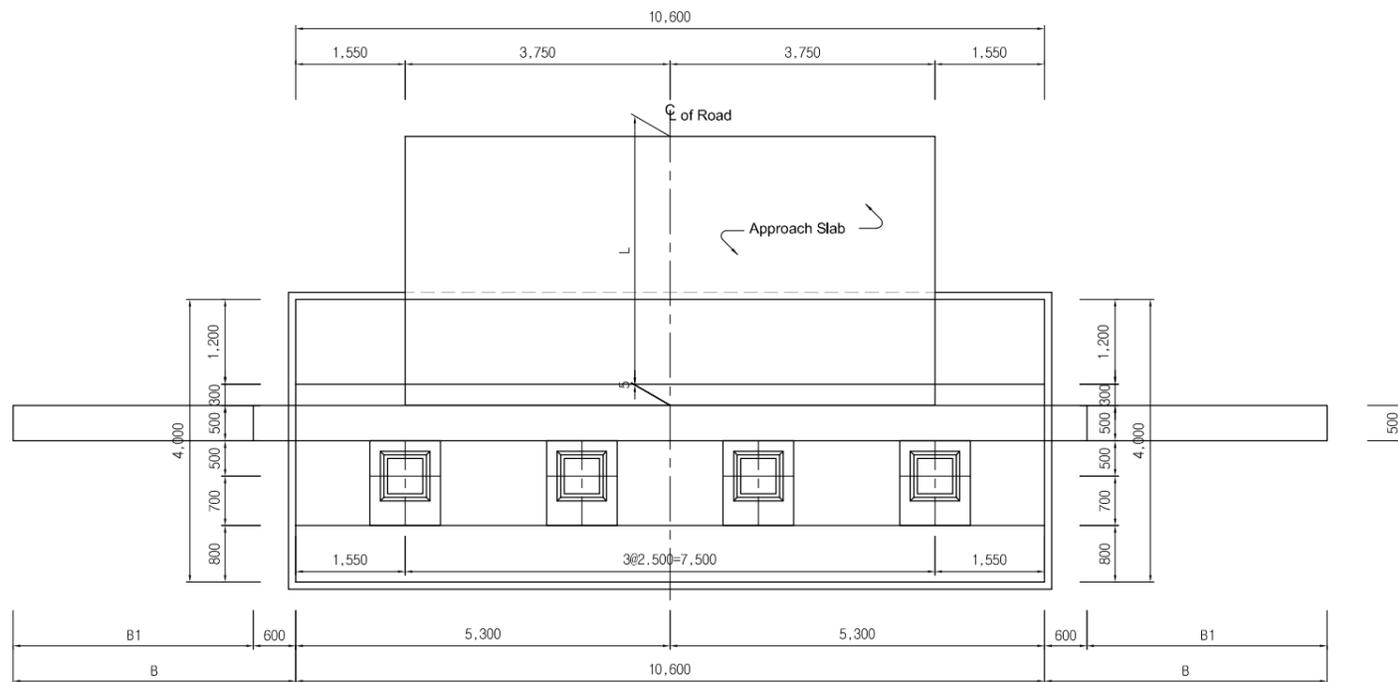
SECTION A-A
S=1:50



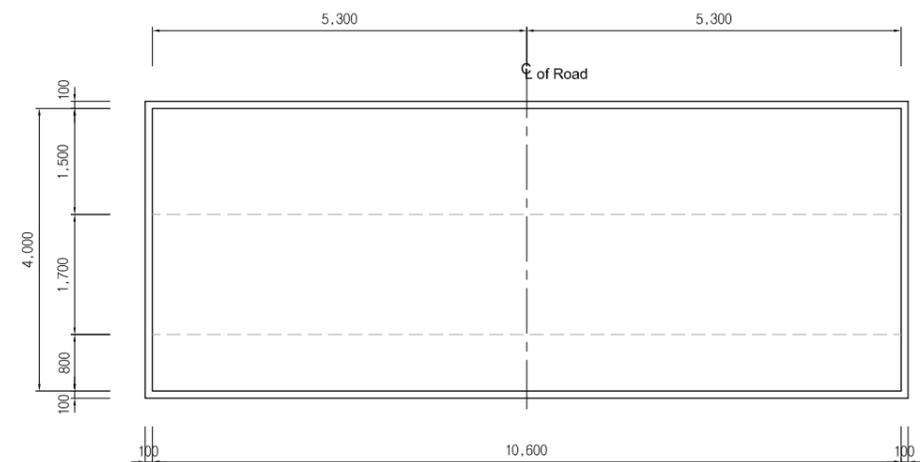
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PLAN VIEW
S=1:50

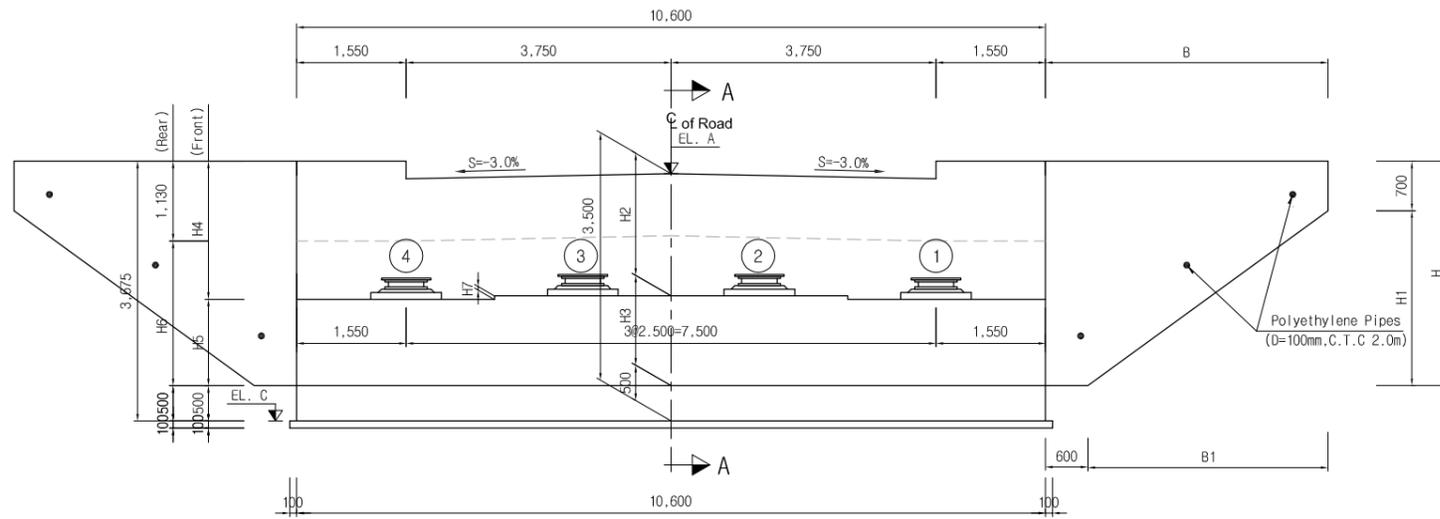


FOUNDATION PLAN VIEW
S=1:50

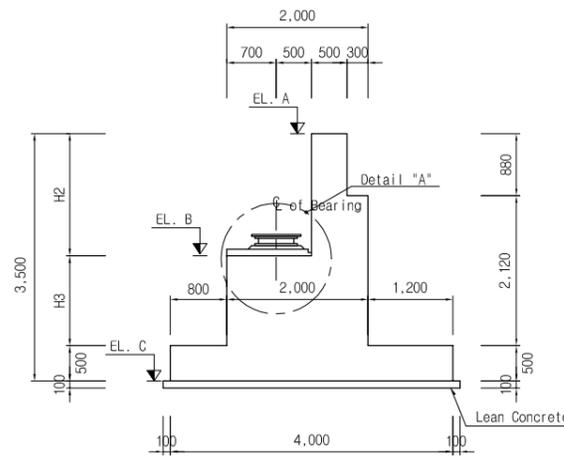


REV.	AMENDMENTS			SURVEY	Date	CONSULTANT		DRAWN	M.M. Kim	RECOMMENDED	AS SHOWN	PROJECT TITLE	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK																	
	BY	APP'D	DATE						SURVEY BOOK Nos				Date	PRINCIPAL		CHECKED	Y.J. Kim	PROJECT ENGINEER	APPROVED	PRINCIPAL ENGINEER	DRAWING TITLE	ABUTMENT - GENERAL LAYOUT (A1)								
																	DESIGNED					I.H. Jang	EXECUTIVE ENGINEER	SECRETARY	SHEET	OF	PROJECT No.	AUTOCAD No.	DRAWING No.	A1/ NB200
																						CHECKED								

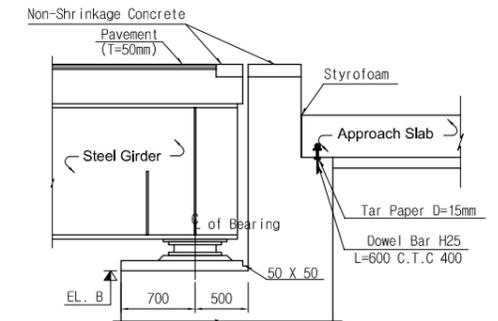
FRONT VIEW
S=1:50



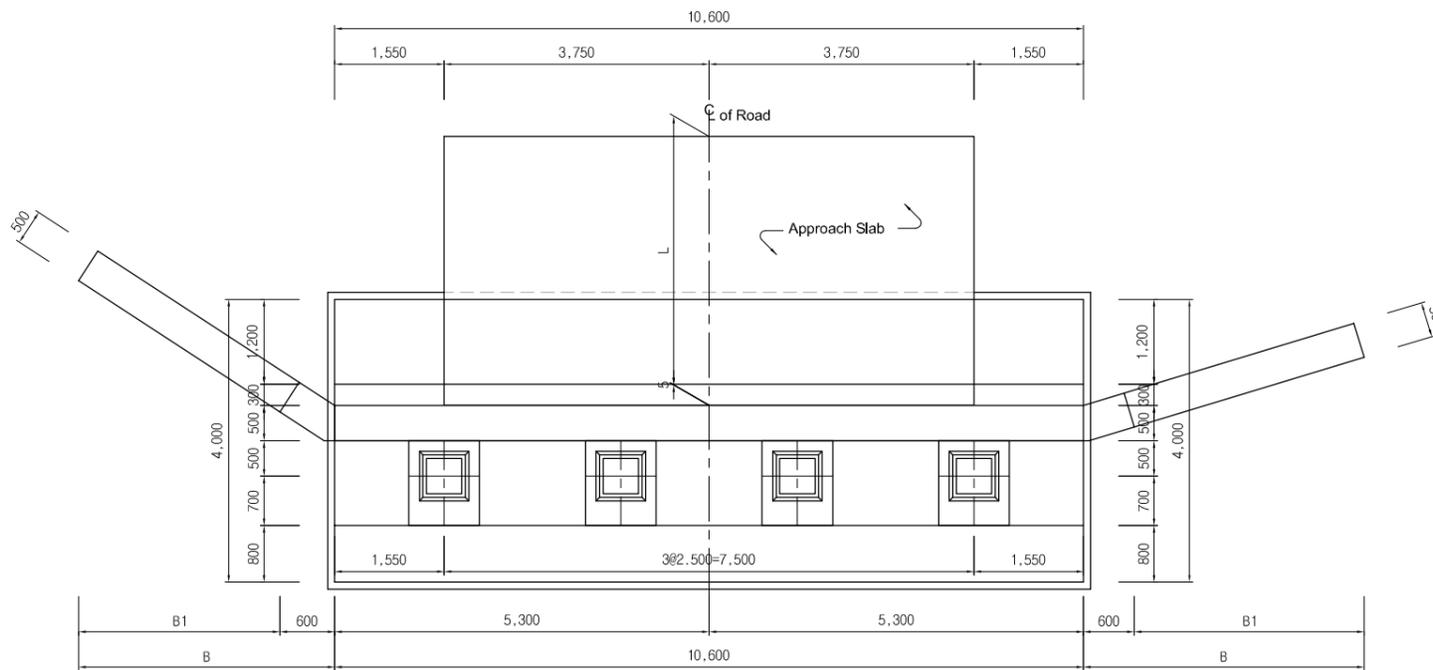
SECTION A-A
S=1:50



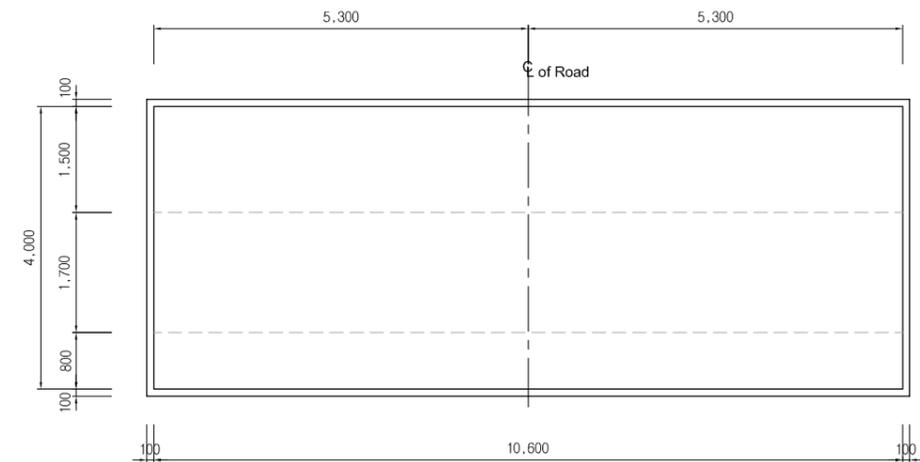
DETAIL "A"
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PLAN VIEW
S=1:50

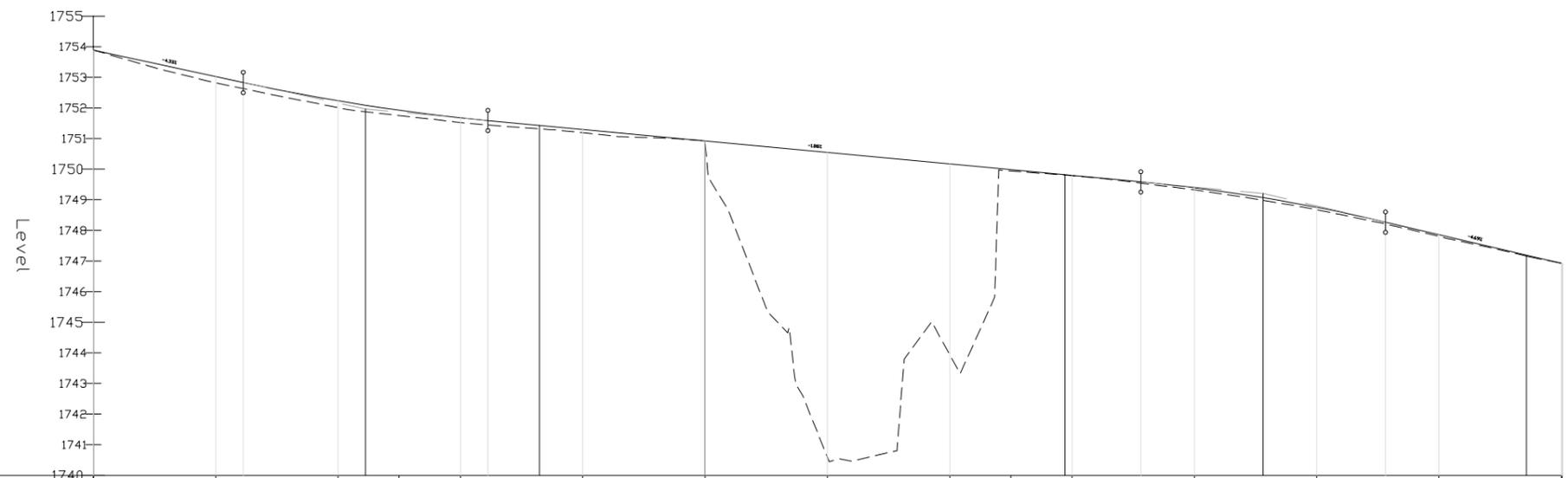
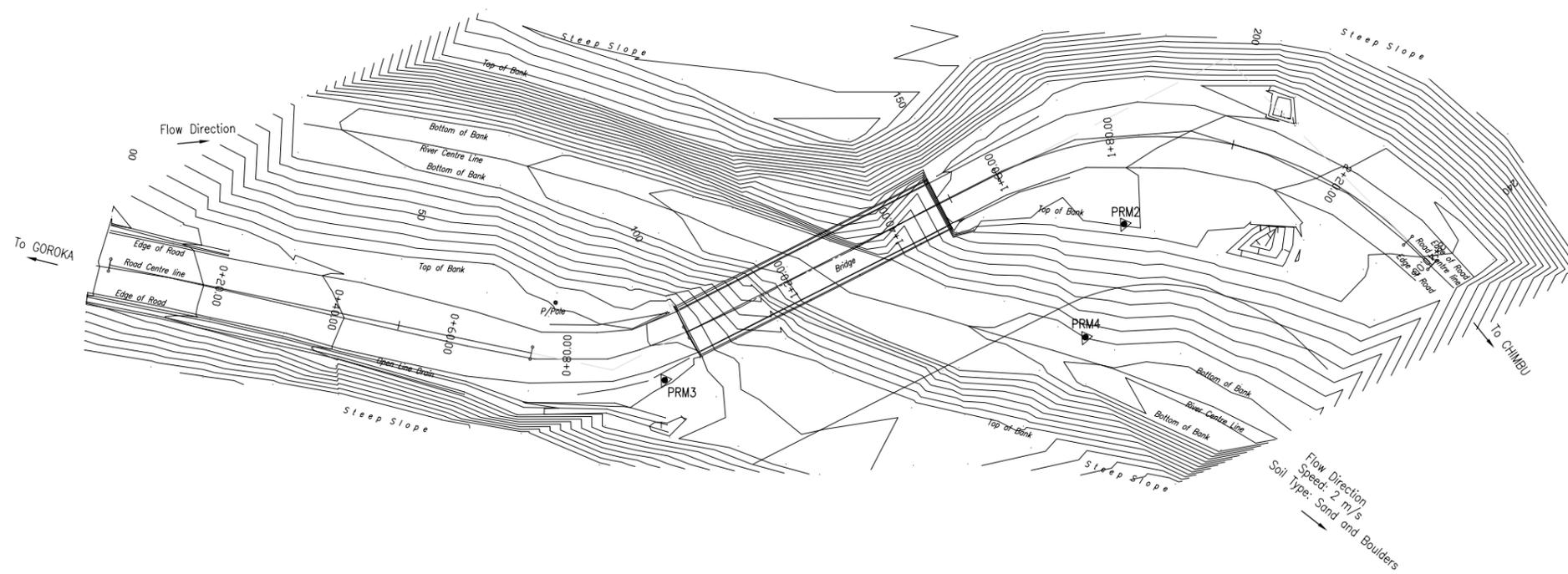


FOUNDATION PLAN VIEW
S=1:50



REV.	AMENDMENTS			BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES		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						M.M. Kim	AS SHOWN	DRAWING TITLE ABUTMENT - GENERAL LAYOUT (A2)				
	HORIZONTAL DATUM						Y.J. Kim			PROJECT ENGINEER	PRINCIPAL ENGINEER		
	SURVEY BOOK Nos						I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	
		E.J. Oh		EXECUTIVE ENGINEER	SECRETARY	PAPUA NEW GUINEA	DEPARTMENT OF WORKS	A1/ NB201					

52. Nurape River Bridge

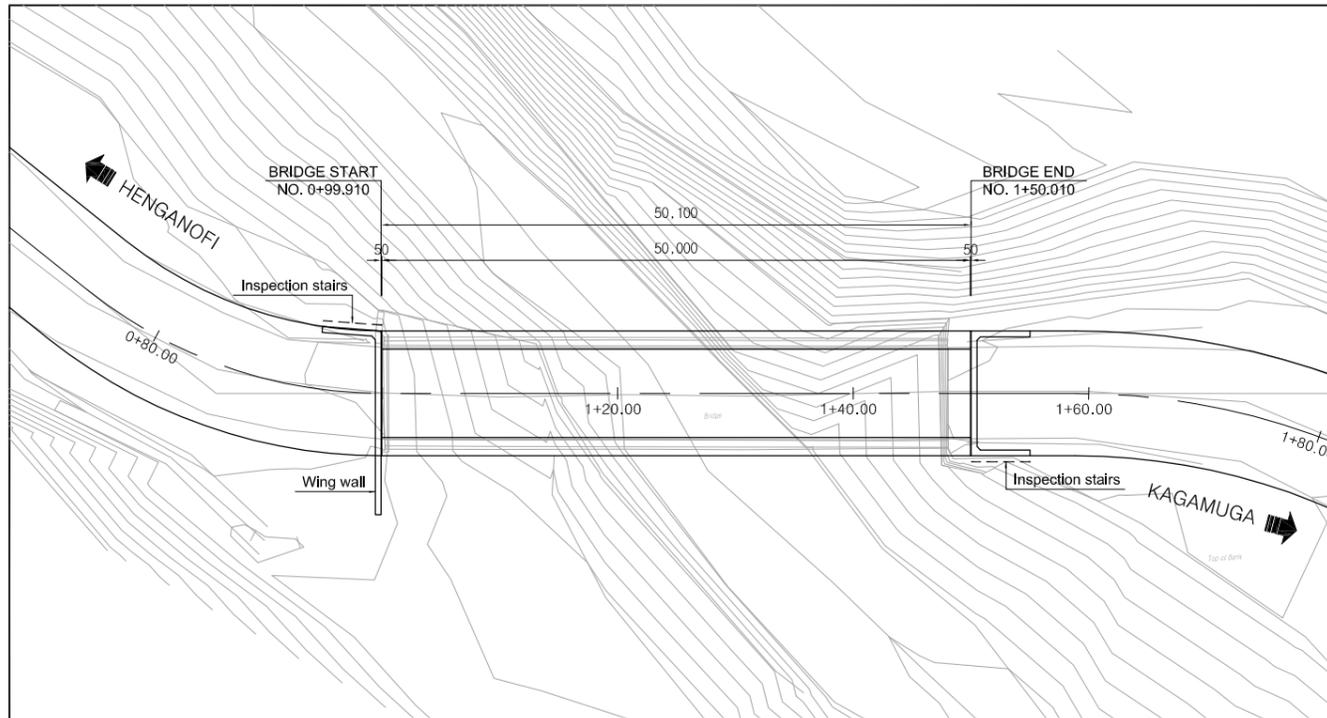


Proposed Levels	1753.890	1753.025	1752.233	1751.926	1751.680	1751.288	1750.922	1750.546	1750.170	1749.982	1749.795	1749.392	1748.753	1747.859	1746.917	1746.592
Existing Levels	1753.890	1752.819	1752.008	1751.752	1751.526	1751.190	1750.856	1740.592	1743.940	1749.937	1749.786	1749.323	1748.675	1747.800	1746.917	1746.592
Chainage	00,000	20,000	40,000	50,000	60,000	80,000	100,000	120,000	140,000	150,000	160,000	180,000	200,000	220,000	240,094	246,000
Horizontal Geometry	L = 72,939					R: 40,000 L: 27,021		L = 58,902			R: 60,000 L: 75,420			L = 5,812		

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES	PROJECT TITLE		
					VERTICAL DATUM	PEC	D. VALLIKAY		H 1:1000 V 1:200	ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHIP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK		
					HORIZONTAL DATUM		CHECKED	APPROVED		DRAWING TITLE		
					SURVEY BOOK Nos		A. WAZOB	PRINCIPAL ENGINEER		PLAN AND PROFILE SHEET - NURAPE		
							A. WAZOB			PAPUA NEW GUINEA	DRAWING No.	REV.
							I. JANG	EXECUTIVE ENGINEER		DEPARTMENT OF WORKS	A1/ AR034	

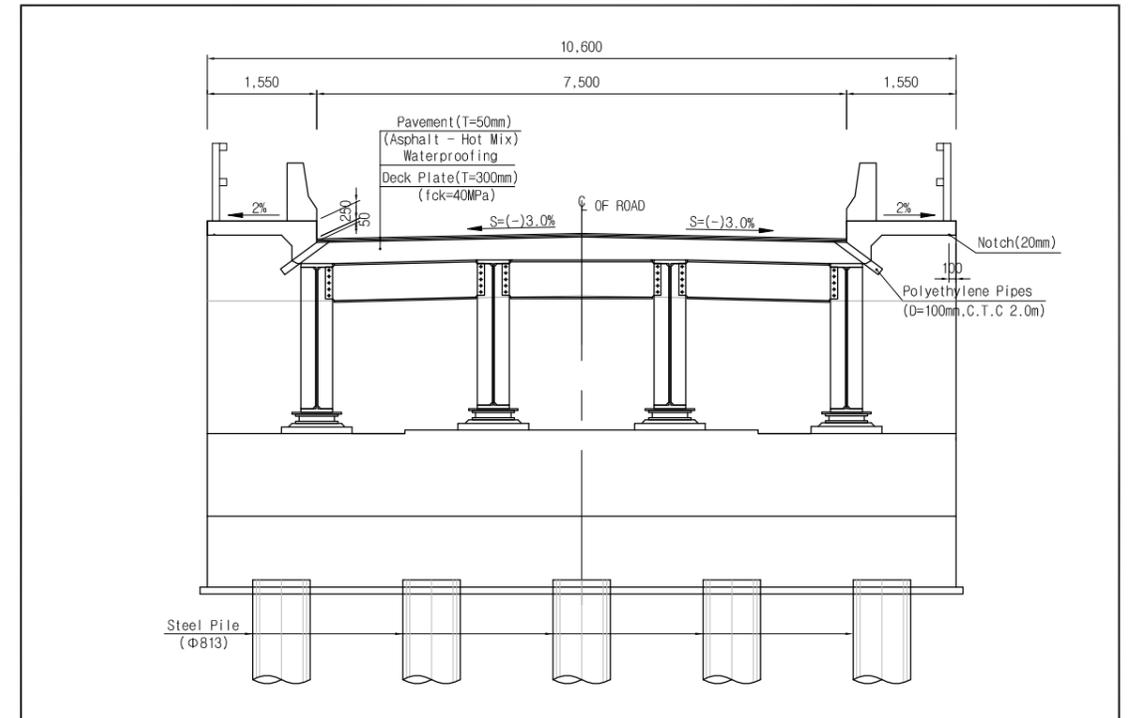
LAYOUT PLAN

S=1:300



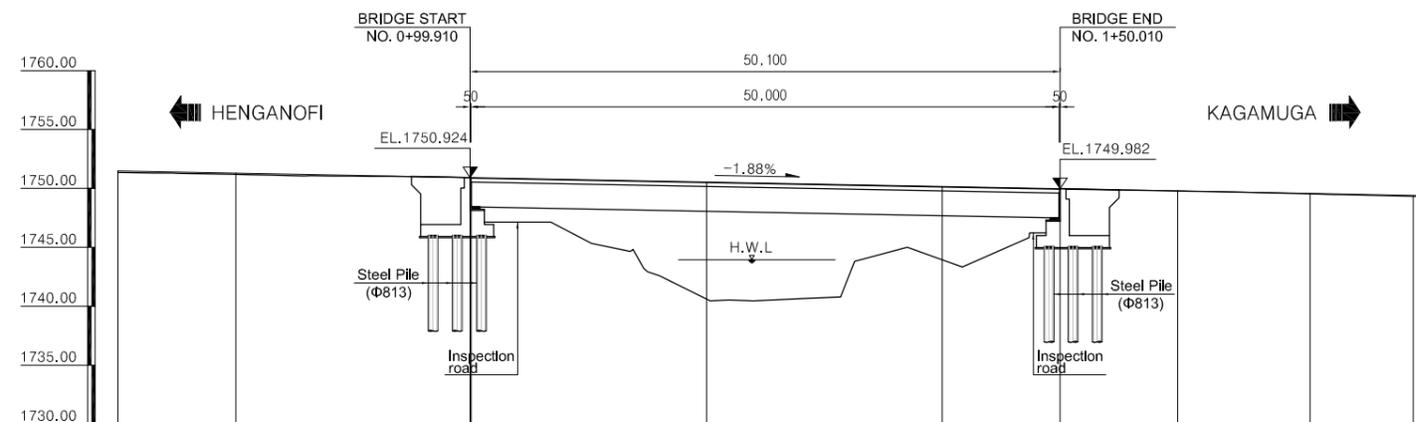
CROSS SECTION

S=1:50



LONGITUDINAL ELEVATION

S=1:300



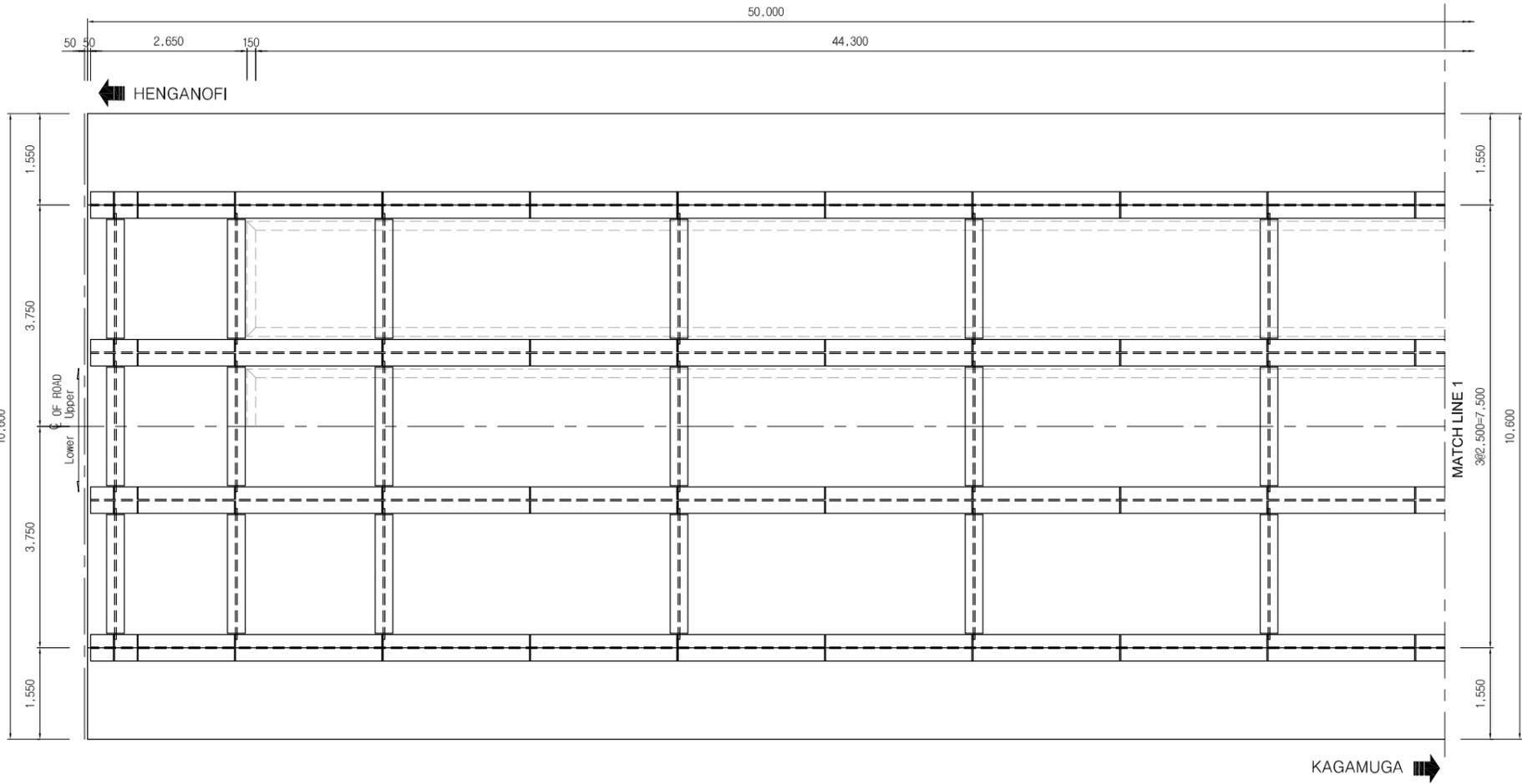
VERTICAL ALIGNMENT	S=-1.8800%		H=1.714, L=91.250		1751.30	1749.58
ELEVATION DESIGN LEVEL	1751.30	1750.92	1750.55	1750.17	1749.79	1749.42
GROUND LEVEL	1751.19	1750.92	1740.59	1743.94	1749.94	1749.32
STATION	0+80.00	0+99.91	1+20.00	1+40.00	1+50.01	1+80.00

NOTE

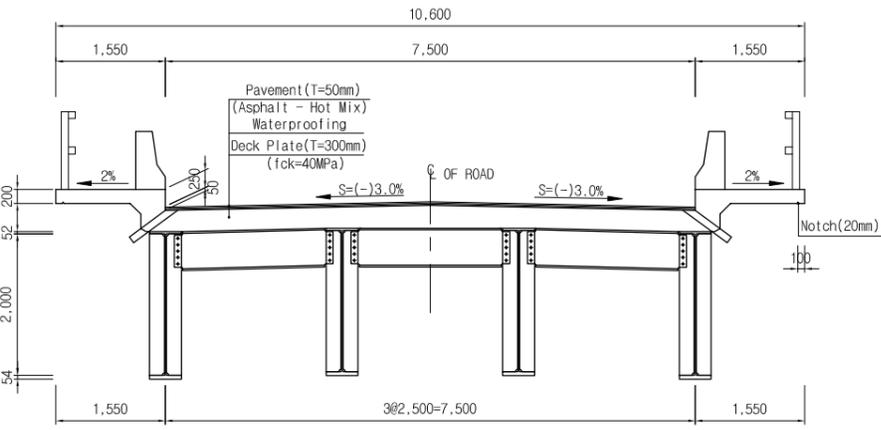
1. The design level of bridge profile standardizes the top level of the bridge pavement.
2. The main materials should be approved by the supervision consultant and/or PMO/DOW before construction.
3. Foundation depth including pile length should be rechecked by contractor with one or more borehole geotechnical investigation in each foundation for proper bearing force. It shall be confirmed by the supervision consultant.
4. 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.
5. 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.
6. Bridge inspection stairs should be installed for the easy maintenance work of girder, bearing and substructure.
7. Foundation scour protection and slope protection in front of abutments should be installed for keeping the foundation stability.
8. 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.
9. Bridge walkway widths at both sides are determined as 1.55m to be considered for the future utilization increase.
10. 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 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		CHECKED Y.J. Kim			
					HORIZONTAL DATUM	PRINCIPAL 	DESIGNED I.H. Jang	APPROVED	PROJECT No.	AUTOCAD No.
				SURVEY BOOK Nos	CHECKED E.J. Oh		EXECUTIVE ENGINEER			

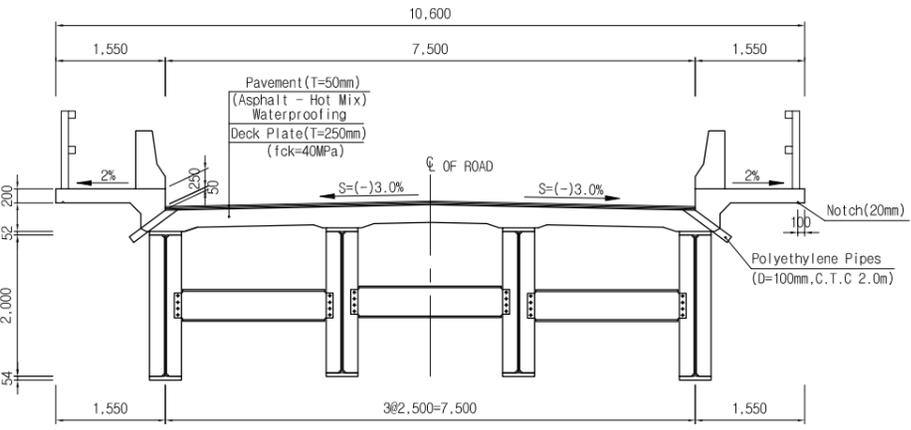
PLAN VIEW



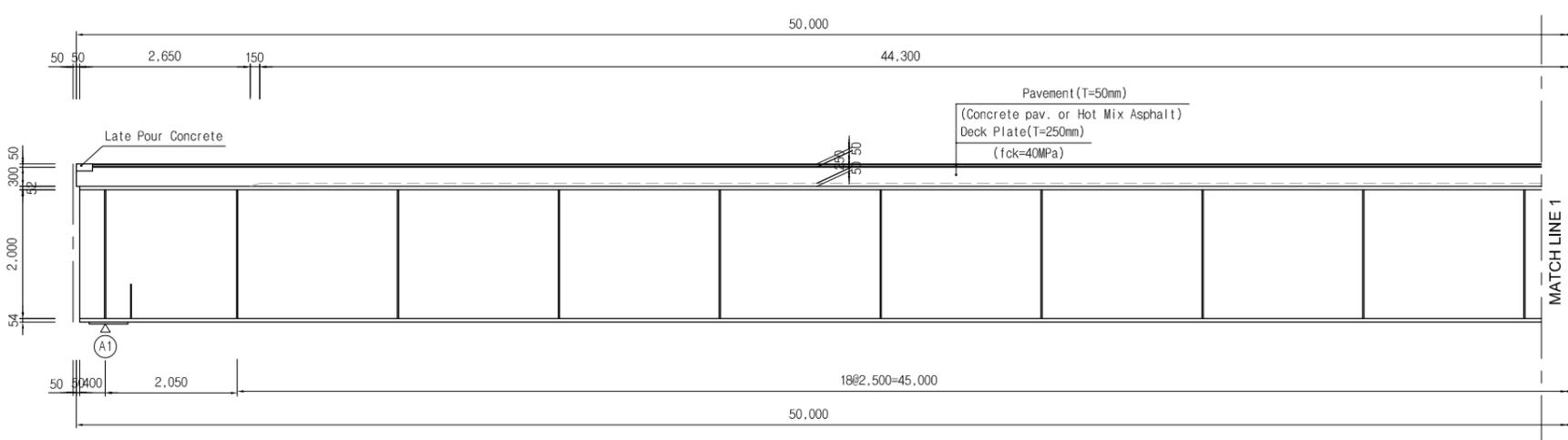
END PART SECTION



MID PART SECTION

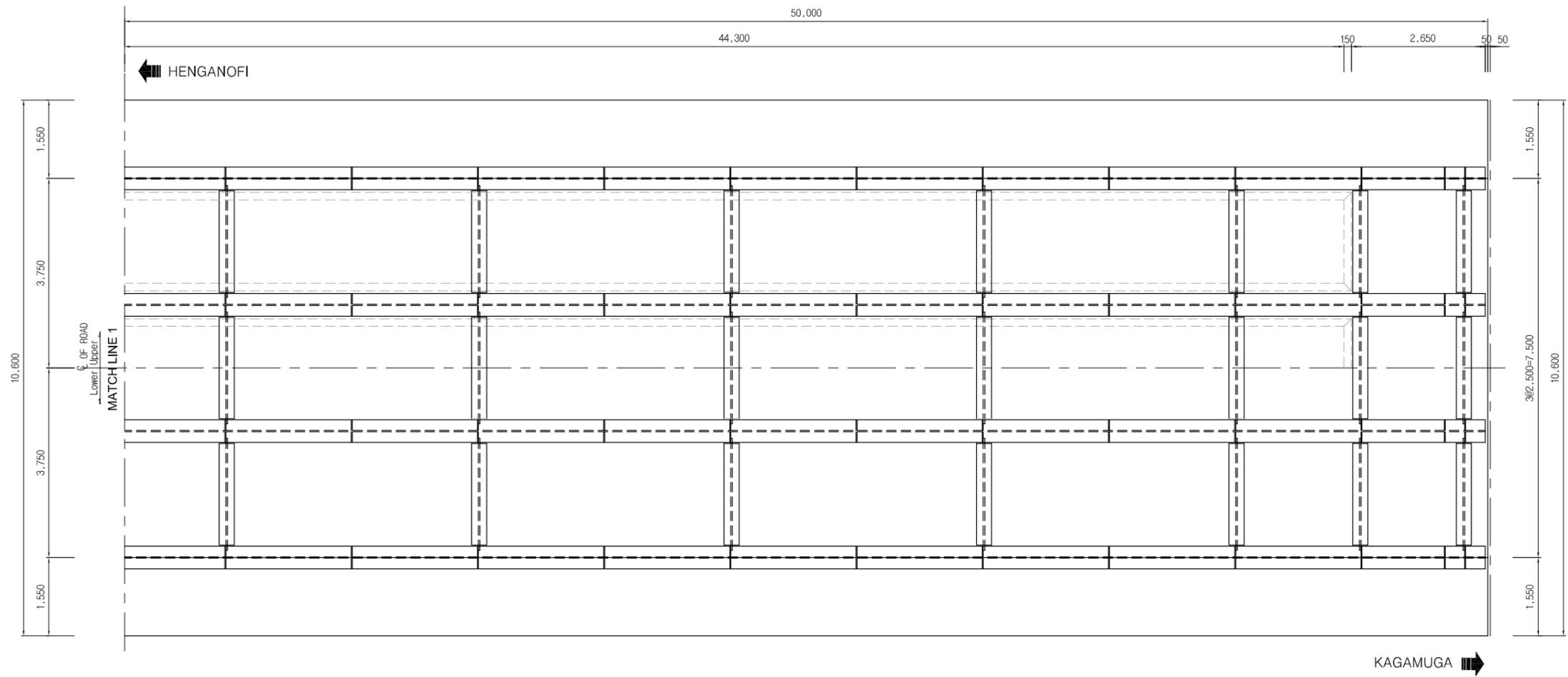


LONGITUDINAL SECTION

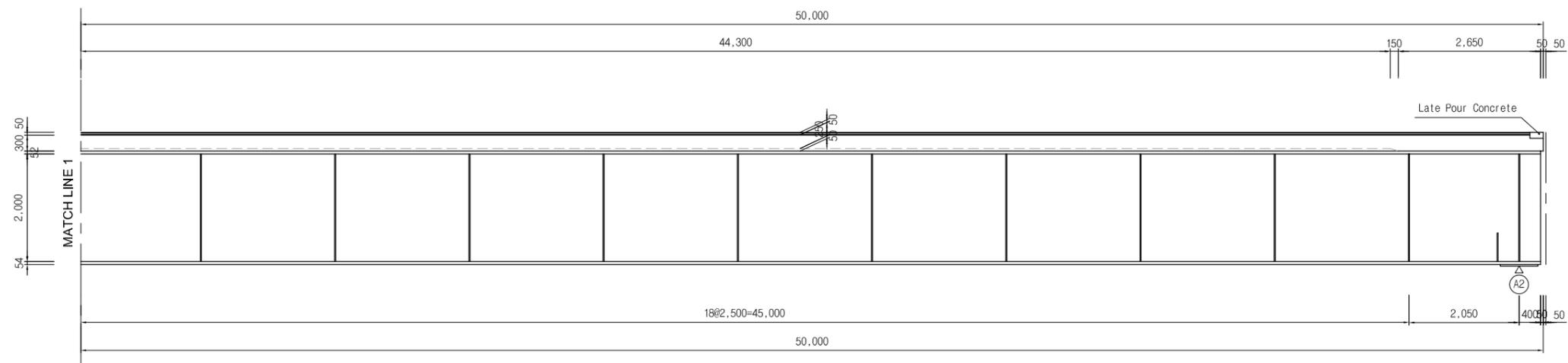


REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT	DRAWN	RECOMMENDED	SCALES		PROJECT TITLE ADB LOAN 3547, 3548 AND GRANT 0538-PNG-SUSTAINABLE HIGHLANDS HIGHWAY INVESTMENT PROGRAM (SHHP) - TRANCHE 1 - CSTB 3747 - REVISED ADDITIONAL SCOPE OF WORK
					VERTICAL DATUM	PEC	M.M. Kim	1 : 50	PROJECT TITLE		
					Date		CHECKED	PRINCIPAL ENGINEER	PROJECT No.	AUTOCAD No.	DRAWING TITLE
				HORIZONTAL DATUM	Y.J. Kim		PROJECT ENGINEER				
				SURVEY BOOK Nos			DESIGNED	APPROVED	SHEET OF		DEPARTMENT OF WORKS
					I.H. Jang		EXECUTIVE ENGINEER				
							CHECKED				A1/ NB203
							E.J. Oh				

PLAN VIEW



LONGITUDINAL SECTION



REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	CONSULTANT PEC	DRAWN M.M. Kim	RECOMMENDED	SCALES 1 : 50	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 SLAB-GENERAL LAYOUT (2)	
					HORIZONTAL DATUM		DESIGNED I.H. Jang	APPROVED		SHEET OF	PROJECT No.	AUTOCAD No.	PAPUA NEW GUINEA DEPARTMENT OF WORKS
					SURVEY BOOK Nos			CHECKED E.J. Oh	SECRETARY				