

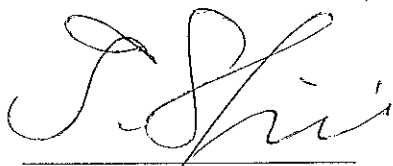
APPENDIX - B

B-3: Minute of Meetings for the Change in the No.3 Bridge Slope Protection Work and Approach Roads

MINUTES OF MEETING
BETWEEN JAPAN INTERNATIONAL COOPERATION AGENCY
AND
NATIONAL HIGHWAY AUTHORITY OF THE GOVERNMENT OF ISLAMIC REPUBLIC
OF PAKISTAN
ON THE SLOPE PROTECTION WORKS AT BRIDGE NO.3: JHELM VALLEY ROAD
PROJECT FOR RECONSTRUCTION OF BRIDGES DAMAGED BY OCT 8, 2005
EARTHQUAKE

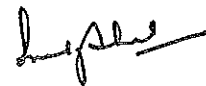
Japan International Cooperation Agency (JICA), Pakistan Office and National Highway Authority (NHA) on September 7, 2007 had a meeting to discuss and reach a common understanding on the necessary design amendments to the Bridge 3 site following the physical site inspection by Project Coordinator (NHIP) on behalf of NHA.

As a result of the discussions, both parties have agreed to the mutual decision taken in the document attached hereto. Both parties will convey the contents of the Minutes of Meeting to their respective higher authority/Governments.

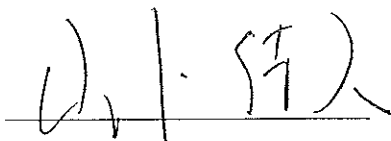


Mr. Tsutomu SHIMIZU
Senior Deputy Resident Representative
JICA Pakistan Office

Islamabad: September 7, 2007



Maj Gen Imtaiz Ahmed
Chairman
National Highway Authority
Islamic Republic of Pakistan



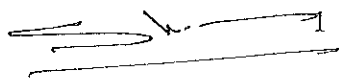
Mr. Yoshihisa YAMASHITA
Project Manager
JICA Study Team

The Subject matter at issue, during this meeting, was discussed as under.

- Project Manager, JICA Study Team presented the drawings and cost estimates amounting to the PKR Twenty Five Million (25,000,000.000) to the Chairman NHA with the explanation that resultant to the site visit and subsequent discussions made with the Project Co-ordinator (NHIP), the cost of NHA portion has been reduced to the afore-mentioned budgetary amount. He further explained that the JICA Study Team's design proposal although acceptable to NHA in principle, yet the same has been curtailed in its scope of implementation due to budgetary constraints of NHA. However, the PM emphasised that the design proposal, curtailed for the purpose, shall necessitate its implementation by the NHA in fast succession to avoid the possibility of risk involving traffic safety and slope stability to that part of this work which is to be completed by the JICA Contractor. The Chairman, upon this, approved this proposal and appreciated the necessity of implementation of the remaining part by NHA to achieve sustainable and safe construction within the proposed reach of the subject project. The Chairman gave further instructions to the GM and the Project Co-ordinator NHIP to make necessary arrangement through NHA contractor to undertake the works on priority footing against the remaining portion of the JICA Study Team's overall design proposal in the larger interest of the project.
- PM JICA Study Team thereafter, furnished a copy of the draft contract agreement to the Chairman NHA, who on perusal of its contents said that this contract agreement shall be signed by the Member (Operation) on behalf of NHA who could therefore, be contacted for fulfilment of the requisite codal formality.

The meeting was called off by Chairman of NHA with a vote of thanks to all the participants of the meeting.

TS



g.

List of Annexure attached to the Minutes of Meeting:

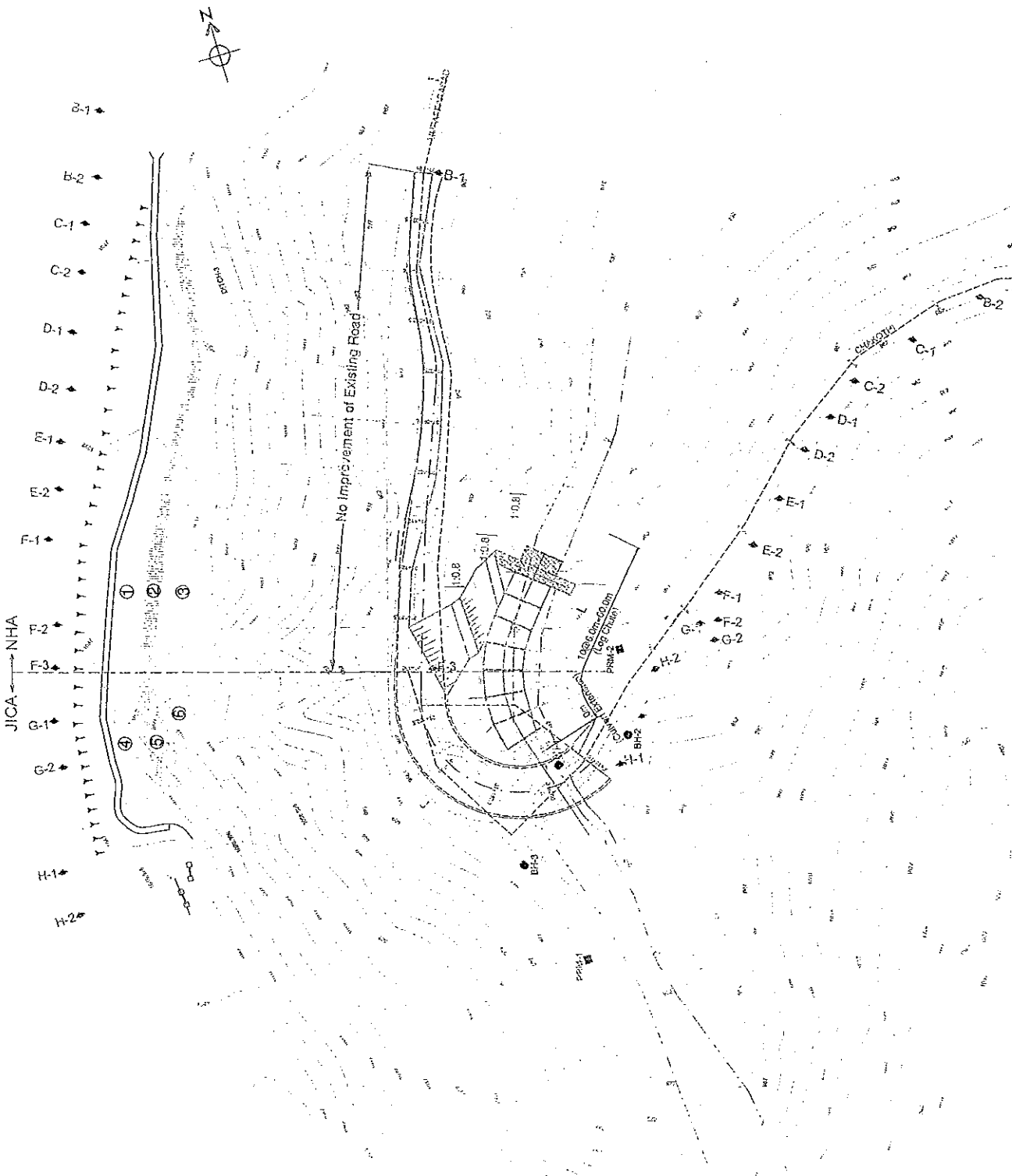
- | | |
|------------------------------------------------------|------------|
| 1. List of participants of September 7, 2007 Meeting | Annexure A |
| 2. Revised Drawings | Annexure B |
| 3. Revised cost Summary | Annexure C |
| 4. Original Drawings | Annexure D |
| 5. Contract Agreement | Annexure E |

TS *W* *g.*

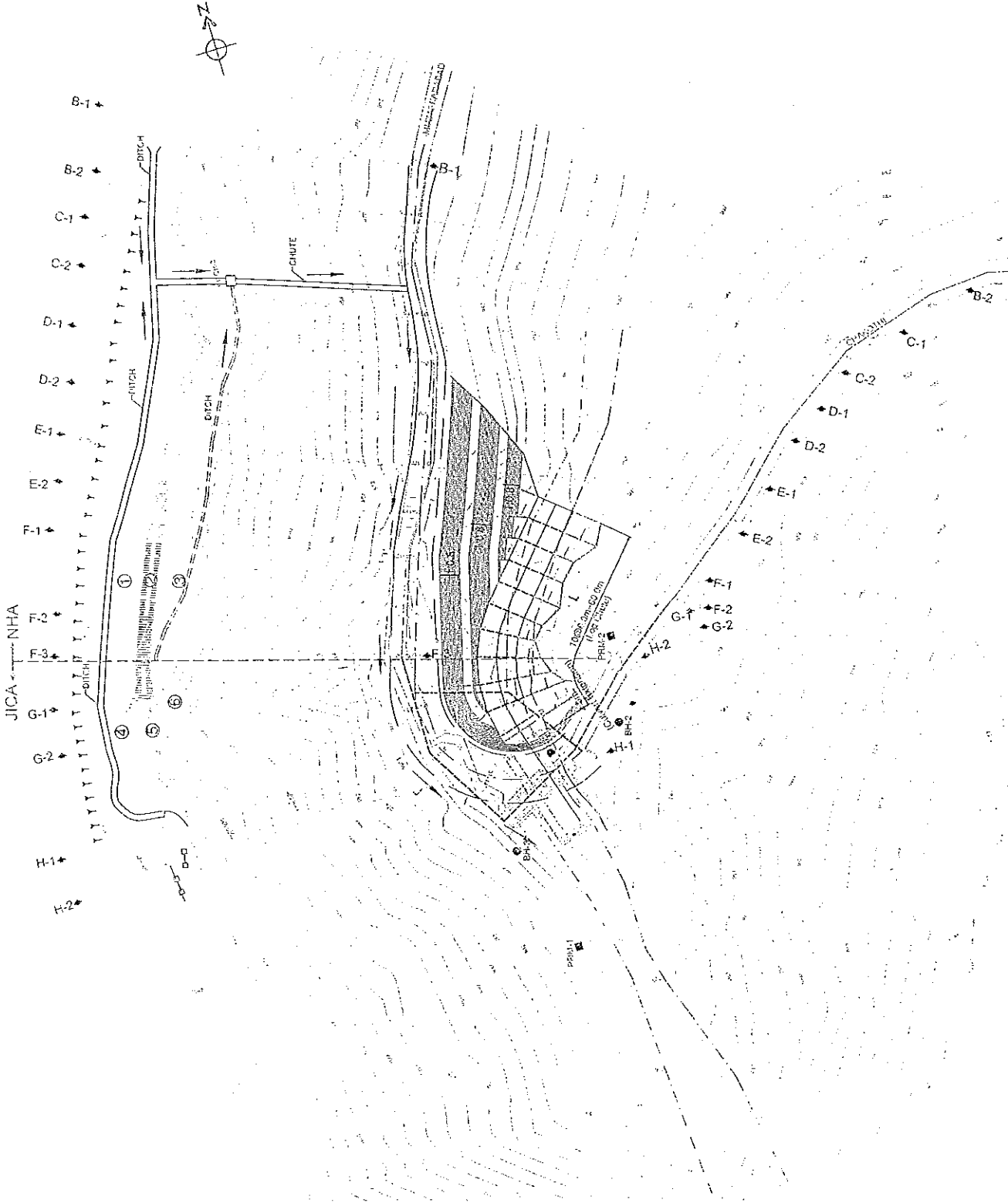
LIST OF PARTICIPANTS

Organization	Name	Designation
NHA	• Major Gen. Imtiaz Ahmed	Chairman
	• Brig. Shahryar Ashraf	General Manager (NHIP)
	• Col® Mansoor Qureshi	Project Co-ordinator (NHIP)
	• Shigeki TAKAHASHI	JICA Expert
JICA	• Tsutomu SHIMIZU	Sr.Dy. Resident Representative
	• Sohail Ahmad	Senior Programme Officer
JICA STUDY TEAM	• Yoshihisa YAMASHITA	Project Manager
	• G.N.MALIK	Dy. Project Manager

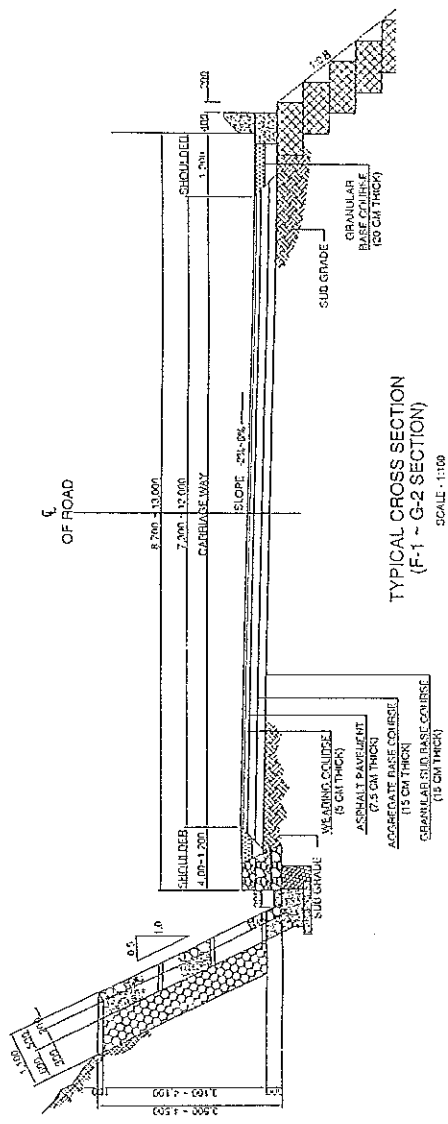
TB A /



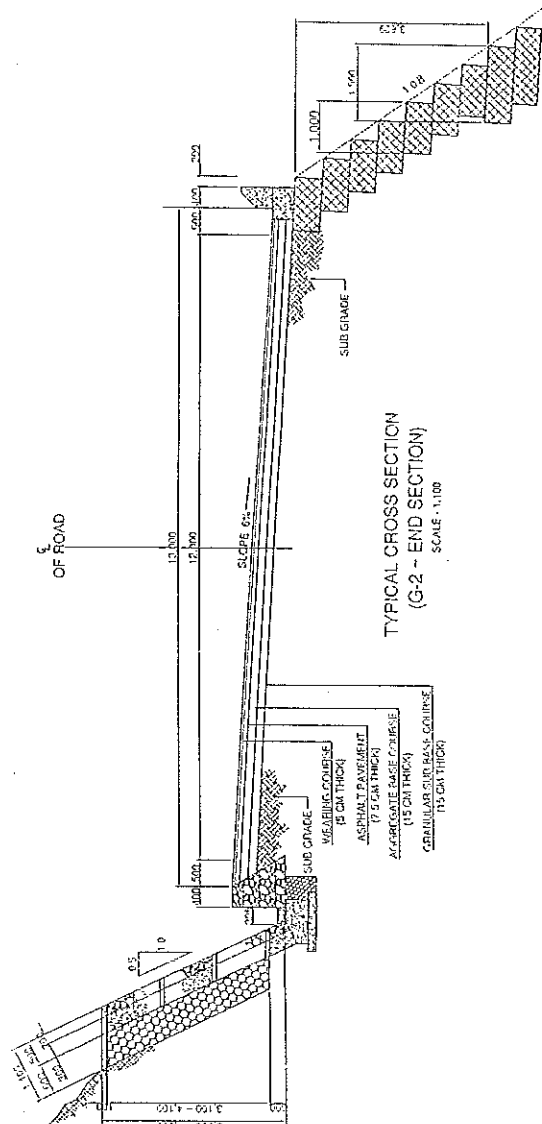
GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JICA INTERNATIONAL COOPERATION AGENCY 1-1-1-1 MIDWAY TECHNICAL LTD (P) LTD AL MIC CONSTRUCTION (P) LTD (M) (K) (C)		SHEET NO. 1 OF 1	GENERAL VIEW PLAN DATE: 2003	SCALE 1:1000
	FEDERAL ASSISTANCE FOR RECONSTRUCTION PROJECT OF MOTORWAY MANAGED BY NATIONAL HIGHWAY AUTHORITY OF THE JHILMI VALLEY ROAD SITE No. 3		DESIGNED BY DRAWN BY CHECKED BY APPROVED BY	DATE DATE DATE DATE	DATE DATE DATE DATE



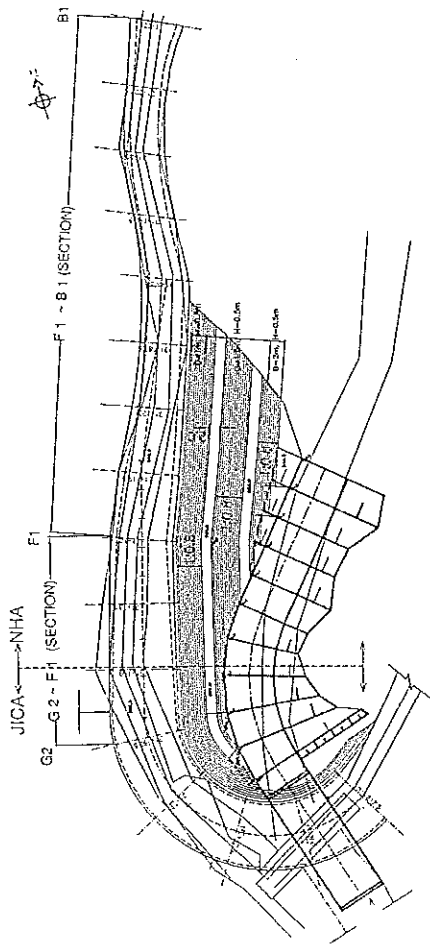
GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY JICA TECHNICAL ASSISTANCE FOR RECONSTRUCTION PROJECT OF BRIDGE DAMAGED BY EARTHQUAKE ON THE BHELM VALLEY ROAD Site No. 3	General View Plan		SCALE 1:1000
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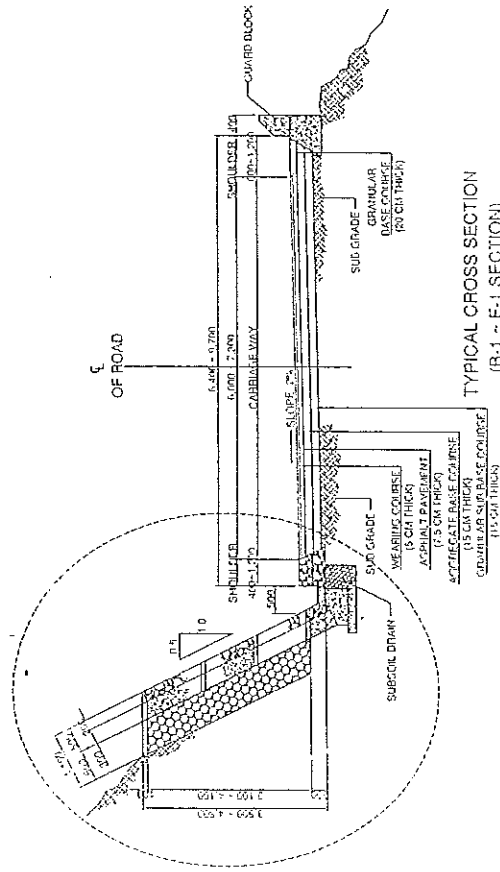
TYPICAL CROSS SECTION
(F-1 - G-2 SECTION)
SCALE - 1:100



TYPICAL CROSS SECTION
(G-2 - END SECTION)
SCALE - 1:100



(PLAN FOR SECTION DETAILS)



TYPICAL CROSS SECTION
(B-1 - F-1 SECTION)
SCALE - 1:100

* DREASY WALL TYPE WILL BE CHANGED, BASED ON THE AVAILABLE WIDTH IN (B) - F1 SECTION

ATTACHMENT - 3		All Dimensions in Millimeters	
DESIGNED BY		DRAWING TITLE	
DRAWN BY		TYPICAL CROSS SECTION	
CHECKED BY		SCALE	
RECOMMENDED BY		AS SHOWN	
APPROVED BY		DATE	
		D.W.G. NO.	
		MAY 2007	
		SHEET NO.	
		55 OF 104	
Technical Assistance for Reconstruction Project of Bridge Damaged by October 8th Earthquake on The Jhelum Valley Road Site No. 3 Slope Protection			
JAPAN INTERNATIONAL COOPERATION AGENCY JICA MINORU KOJIMA, LTD. (JPK) ALMEER CORPORATION LTD. (ALMJC)			
GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY			
REV.	DATE	DESCRIPTION	
04			
03			
02			
01			

JICA ← → NHHA

Subsoil drain L=172 m (JICA:47 m, NHA:125 m)

Breast Wall with road side drain L=157 m (JICA:32 m, NHA:125 m)

Drain L=30 m

Drain L=15 m

Fence L=63m

Fence L=12m

Drain L=30 m

Catch Wall L=15 m

Guard block 9 nos.

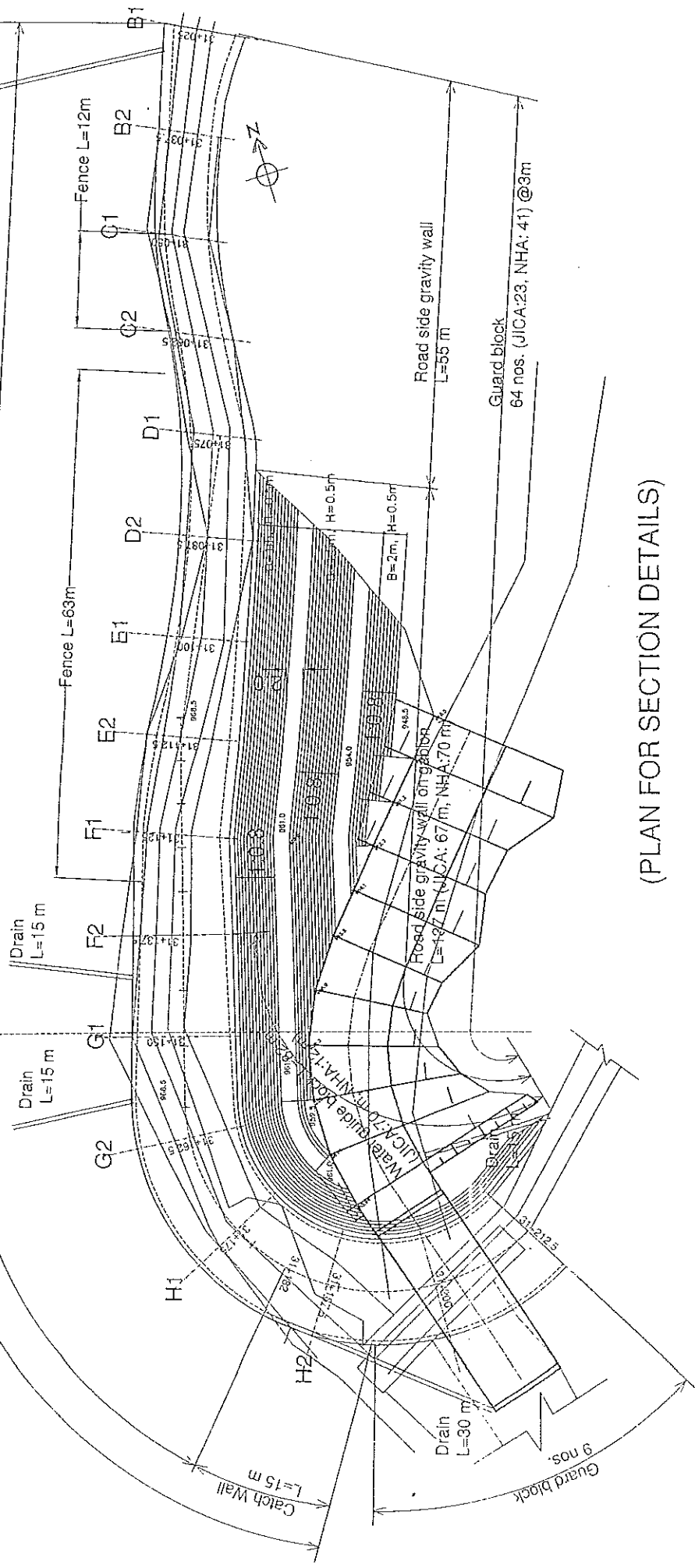
Road side gravity wall L=55 m

Guard block 64 nos. (JICA:23, NHA:41) @3m

Road side gravity wall on top of L=127 m (JICA: 67 m, NHA:70 m)

B=2m, H=0.5m

H=0.5m

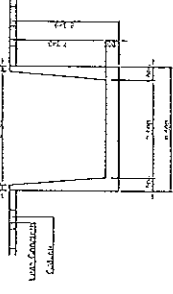


(PLAN FOR SECTION DETAILS)

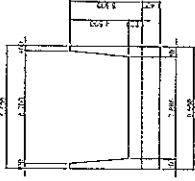
All Dimensions in Millimeters

GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO NIPPON KOFU CO. LTD. (NKS) ALMEC CORPORATION LTD. (ALMELCO)	G4	DESIGNED BY	DRAWN BY	ASSISTED BY	RECOMMENDED BY	APPROVED BY	DRAWING TITLE	PLAN	SCALE 1:500
		G3 G2 D1	REV. DATE	DESCRIPTION	DATE	DWG. NO.	MAY 2007	13.	05-05-06	

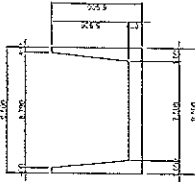
A-A Section



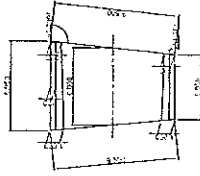
B-B Section



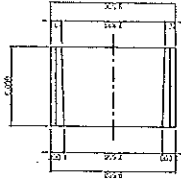
C-C Section



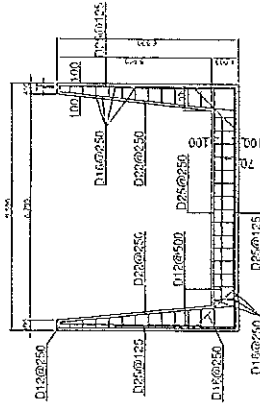
Block No.1 - 5



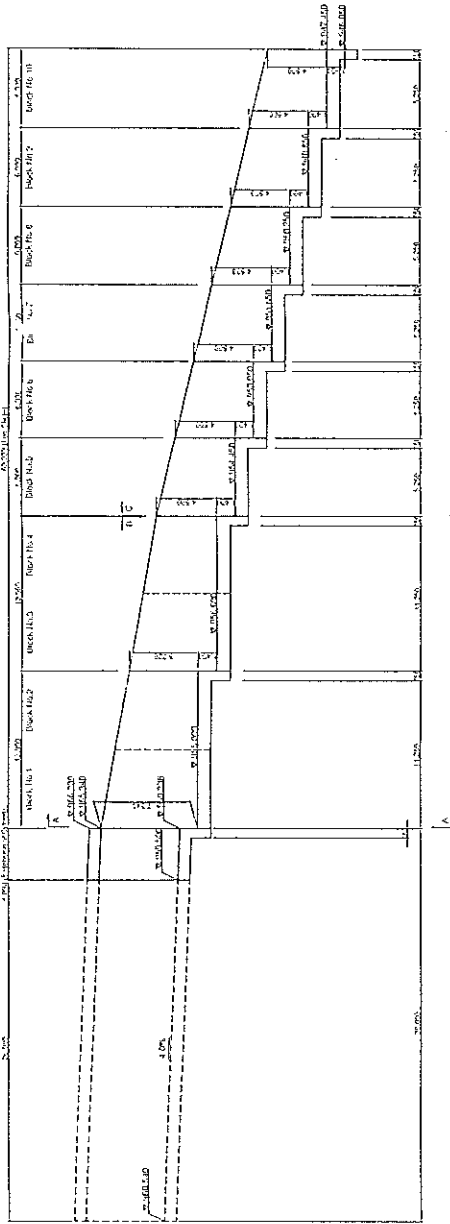
Block No.6 - 10



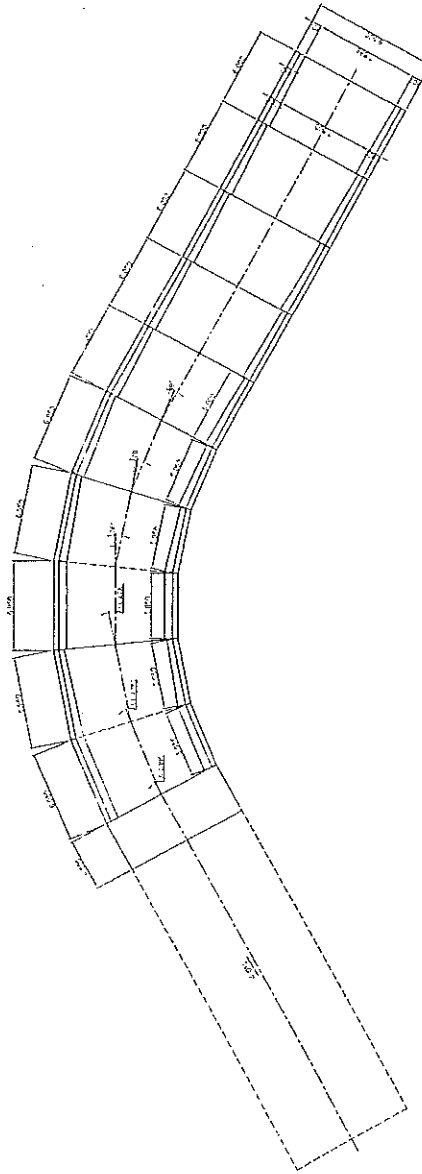
Reinforcement



Profile of Log Chute



Plane of Log Chute



ATTACHMENT - 4

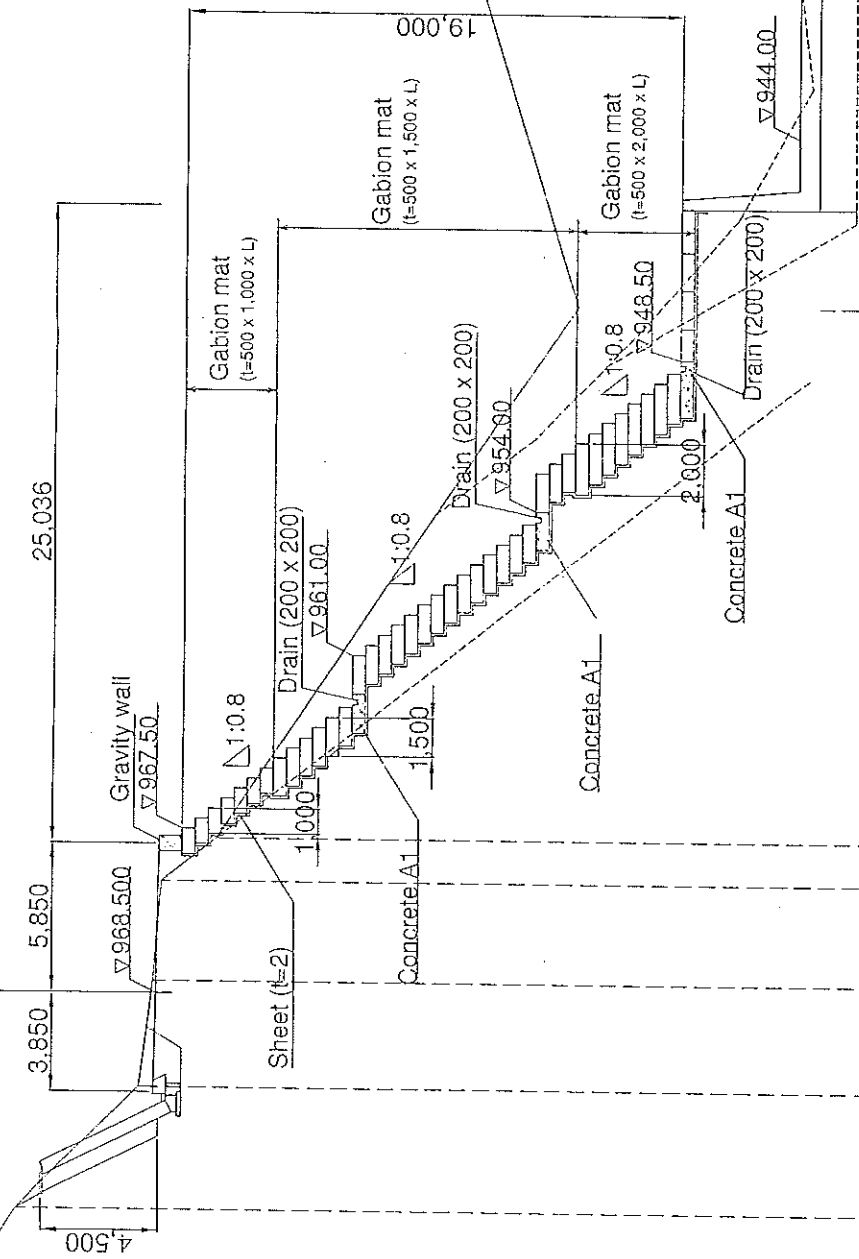
All Dimensions in Millimetres

<p>GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: NIPPON KOEI CO., LTD. (NKC) ALNCC CORPORATION LTD. (ALNCC)</p>	<p>DESIGNED BY DRAWN BY CHECKED BY RECOMMENDED BY APPROVED BY</p>	<p>04 03 02 01 REV. DATE</p>	<p>DESCRIPTION</p>	<p>DRAWING TITLE</p>	<p>SCALE</p>
					<p>Structure of Log Chute Revised</p>	<p>1:400</p>
					<p>DATE</p>	<p>DWG. NO.</p>
					<p>JULY 2007</p>	<p>SLC/001</p>

Technical Assistance for Reconstruction Project
of Bridge Damaged by October 8th Earthquake
on The Jhelum Valley Road
Site No. 3 Slope Protection

ST -02.125

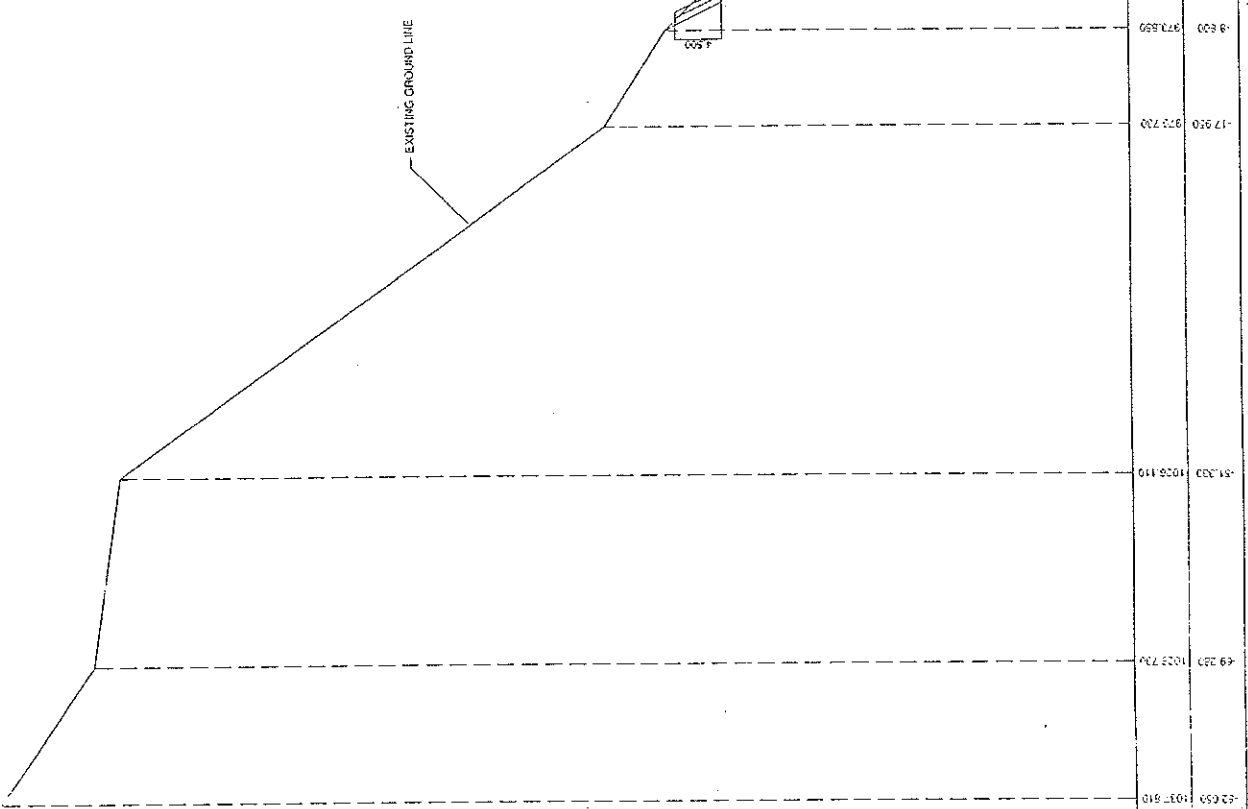
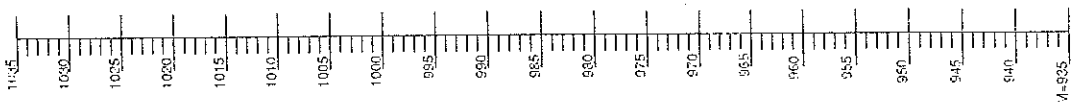
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All Dimensions in Millimeters

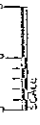
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<p>01</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>APPROVED BY</p>	<p>REQUIREMENTS BY</p>	<p>ASSEMBLED BY</p>	<p>DRAWN BY</p>	<p>Cross Section a-a' (detail) E2 Section</p>	<p>DATE</p>
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<p>03</p>								<p>1987</p>

7.3



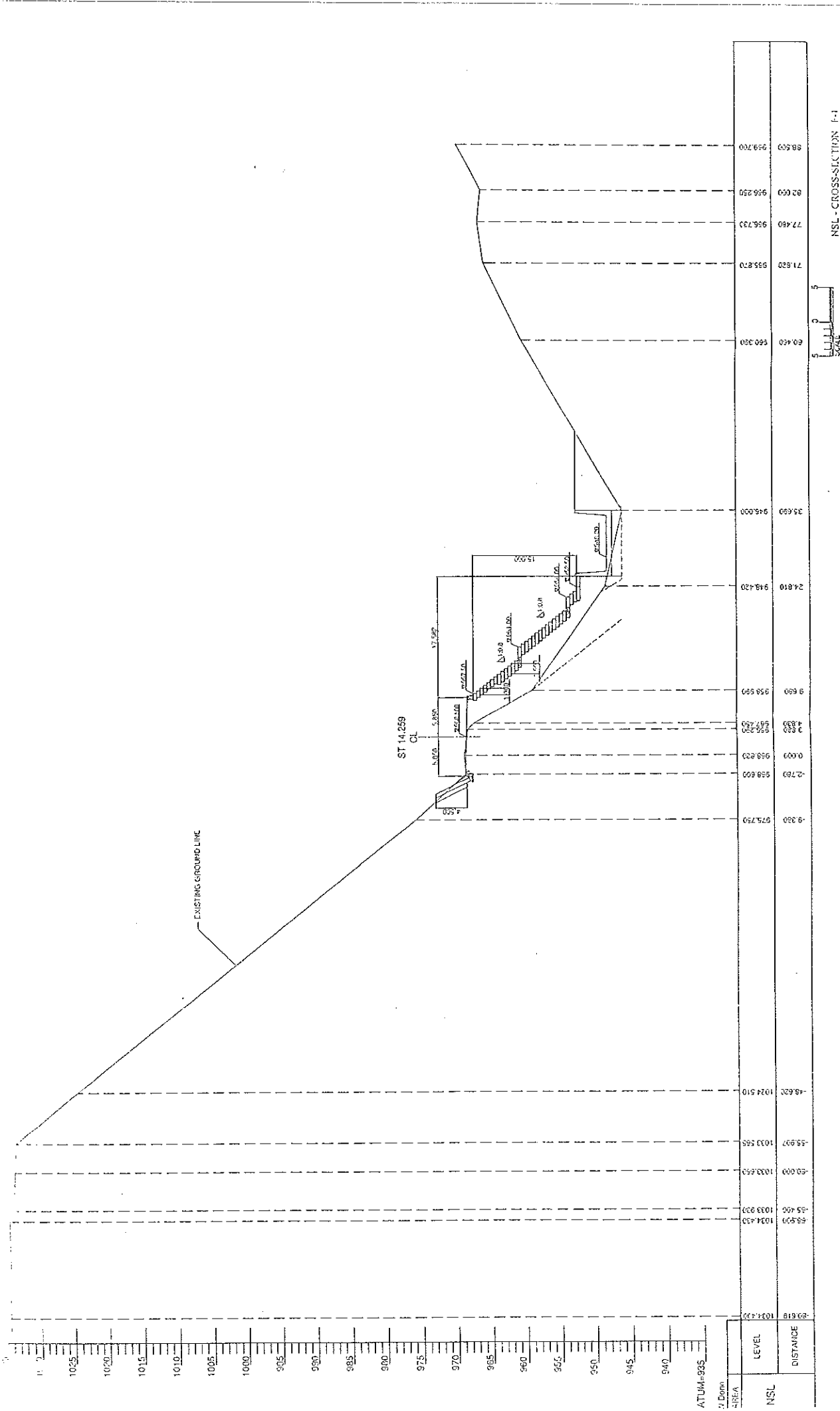
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-17.920	973.730	
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-4.120	963.130	
9.000	958.610	
1.920	955.280	
5.800	953.190	
25.500	922.420	
57.350	931.830	
63.100	934.150	
67.830	935.630	
73.110	935.290	
83.000	937.550	
86.000	937.820	

NSL - CROSS-SECTION E-2



All Dimensions in Millimeters

<p>GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY</p>		<p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSOCIATED WITH NIPPON KOGI CO., LTD. (NSK) JICA AIJEC CORPORATION (JICA/AIJC)</p>		<p>DESIGNED BY DRAWN BY</p>		<p>APPROVED BY CHECKED BY</p>		<p>DATE</p>		<p>PROJECT NO.</p>		<p>GRAPHIC TITLE</p>		<p>Cross Section a-a'</p>		<p>SCALE 1:500</p>	
<p>Technical Assistance for Reconstruction Project of Bridge Damaged by October 8th Earthquake on The Jhelum Valley Road Site No. 3 Slope Protection</p>										<p>DATE</p>		<p>DATE</p>		<p>DATE</p>		<p>DATE</p>	



NSL - CROSS-SECTION F-1

LEVEL		DISTANCE	
NSL	LEVEL	DISTANCE	DESCRIPTION
	1024.20	-8.62	1024.50
	99.618	-5.97	1033.56
	99.59	-5.00	1033.65
	99.53	-4.97	1033.93
	99.45	-4.82	1024.50
	99.39	-3.80	975.750
	99.30	-2.78	99.690
	99.23	0.00	99.230
	99.23	4.82	99.230
	99.23	9.60	99.590
	99.23	24.810	94.420
	99.23	35.650	94.000
	99.23	71.520	95.870
	99.23	77.480	96.730
	99.23	82.000	96.230
	99.23	88.500	95.700

All Dimensions in Meters (M)

Technical Assistance for Reconstruction Project of Damage Damaged by October 18th Earthquake in The Jhalum Valley Road Site No. 1 Shipe Protection

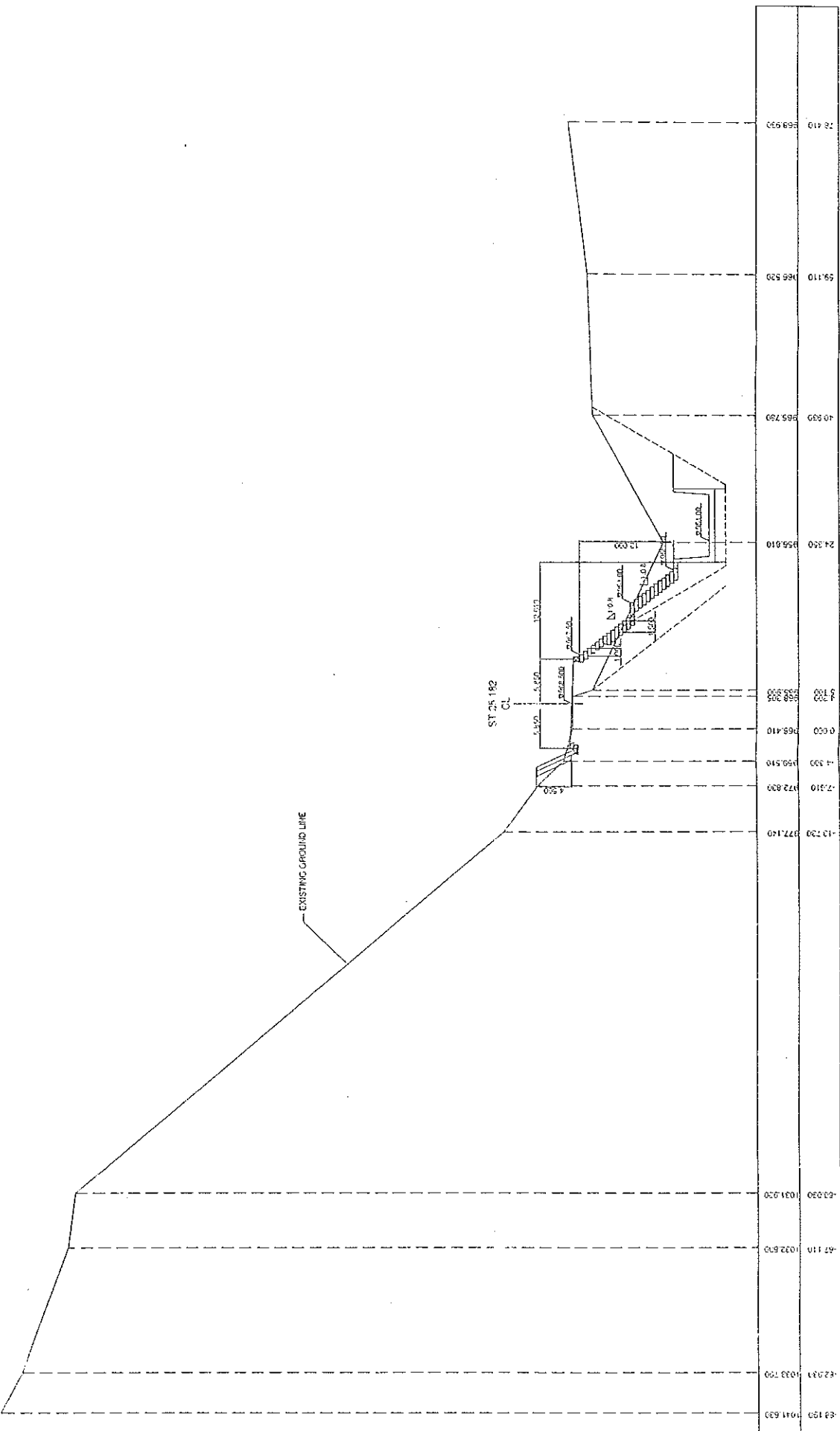
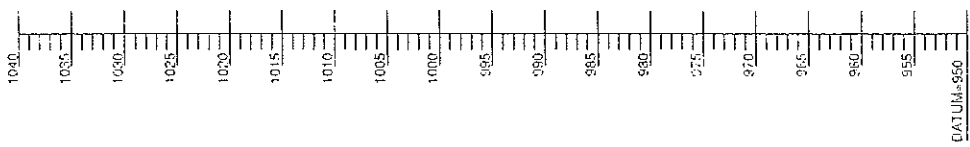
REV.	DATE	DESCRIPTION	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
04						
03						
02						
01						

JAPAN INTERNATIONAL COOPERATION AGENCY
 NSL
 NIPPON KOEI CO., LTD. (INS)
 ALMEC CORPORATION LTD. (ALMEC)

GOVERNMENT OF PAKISTAN
 MINISTRY OF COMMUNICATIONS
 NATIONAL HIGHWAY AUTHORITY

Cross Section b-b'
 DATE: MAY 2007
 DRAWING TITLE: Cross Section b-b'
 SCALE: 1:500

TS-WG

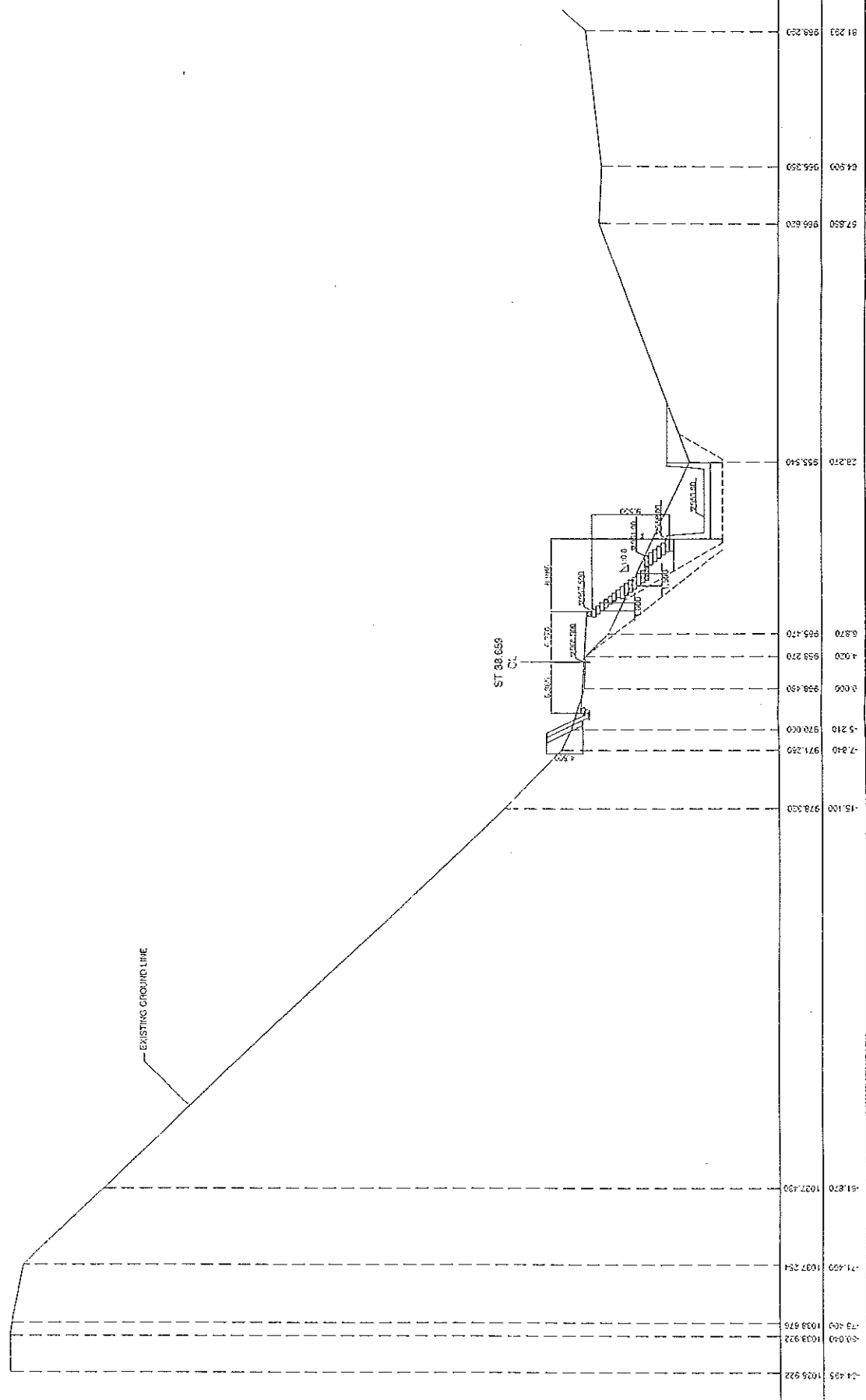
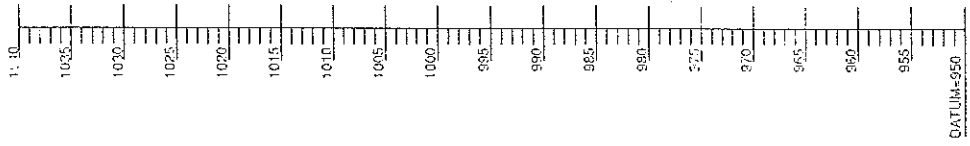


AREA	LEVEL	DISTANCE
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960	960	0
965	965	0
970	970	0
975	975	0
980	980	0
985	985	0
990	990	0
1000	1000	0
1005	1005	0
1010	1010	0
1015	1015	0
1020	1020	0
1025	1025	0
1030	1030	0
1035	1035	0
1040	1040	0

NSL - CROSS-SECTION P-2

All Dimensions in Millimeters

<p>GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY</p>		<p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSISTANT ATTACHE ALMEC CORPORATION LTD. (ALMEC)</p>		<p>DESIGNED BY DRAWN BY CHECKED BY RECOMMENDED BY APPROVED BY</p>		<p>DATE DATE DATE DATE DATE</p>		<p>DESCRIPTION</p>		<p>Technical Assistance for Reconstruction Project of Bridge Damaged by October 8th Earthquake on The Helium Valley Road Site No. 3 Slope Protection</p>		<p>DRAWING TITLE Cross Section c-c'</p>		<p>SCALE 1:500</p>	
<p>DATE: MAY 2007</p>															
<p>DWG NO: 035/02/004</p>															



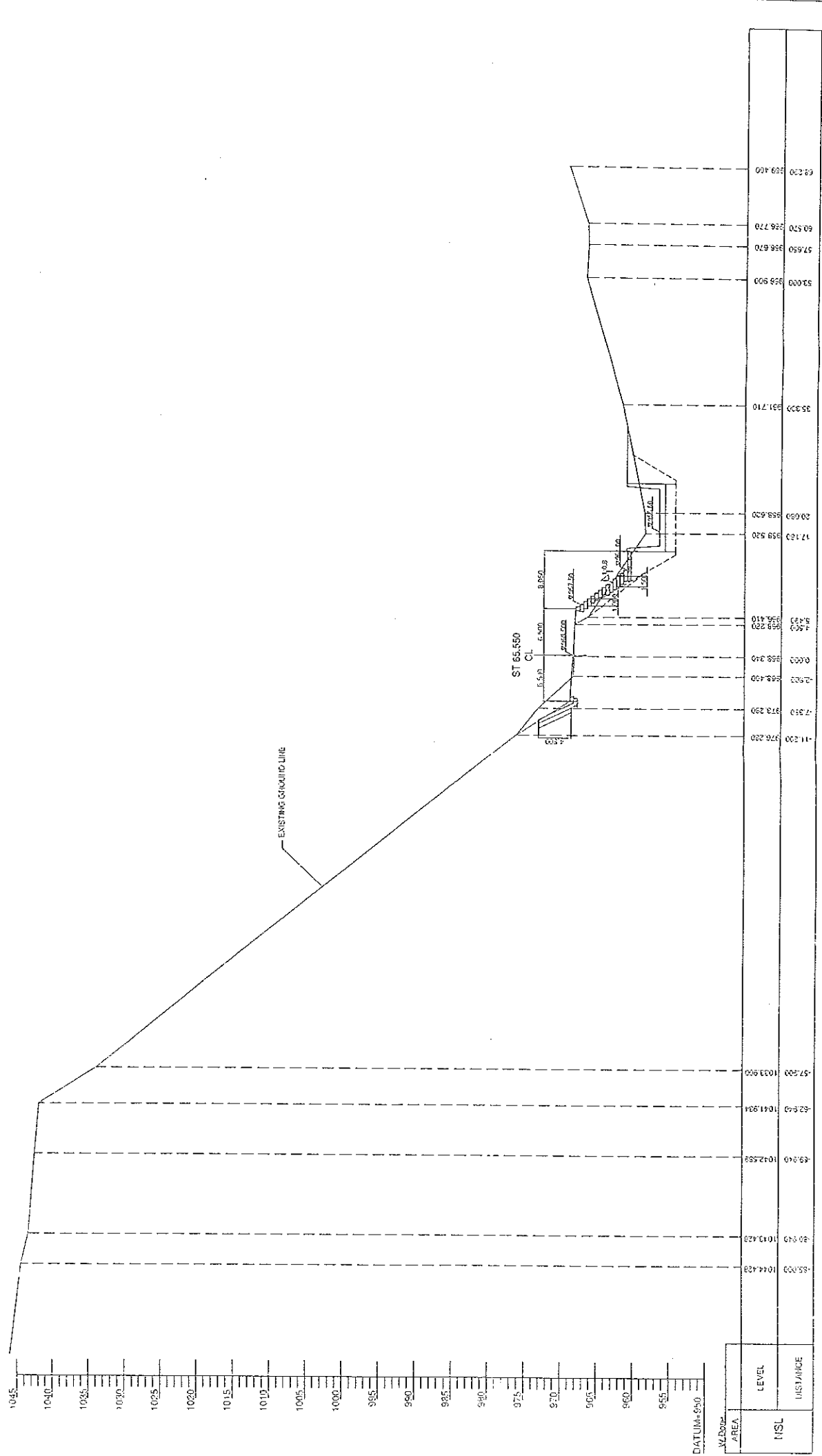
AREA	NSL	LEVEL	DISTANCE
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	-5.210	970.000	
	3.006	958.430	
	4.020	959.270	
	6.870	965.470	
	22.270	955.540	
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	64.500	956.350	
	91.230	968.230	



NSL - CROSS-SECTION G-1
All Dimensions in Millimeters

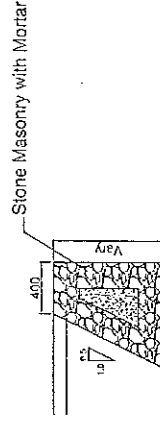
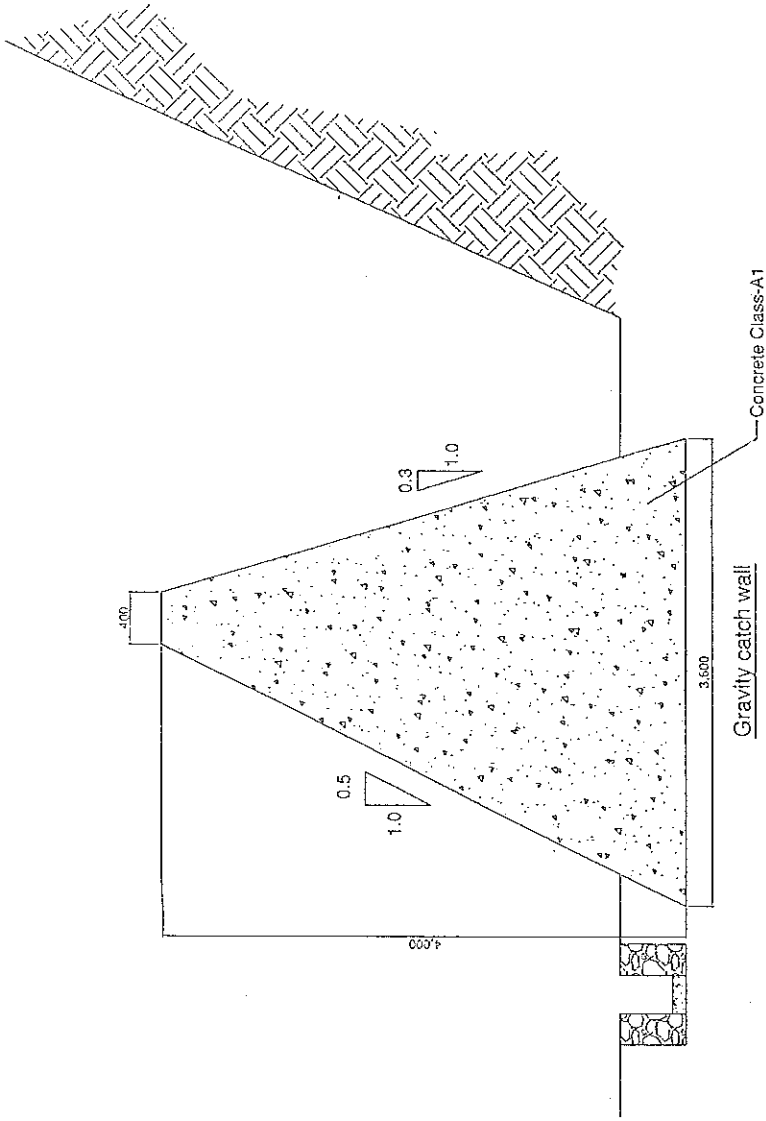
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		<p>CHK. DATE</p>	<p>ASSTED BY</p>		<p>RECOMMENDED BY</p>	<p>APPROVED BY</p>

AS K

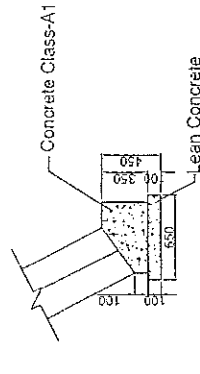
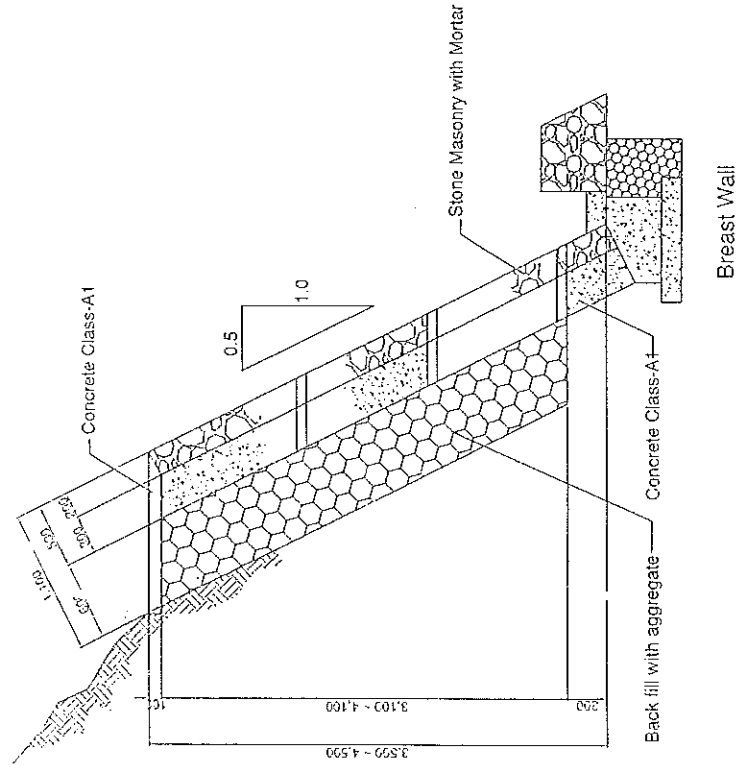


REV	DATE	DESCRIPTION	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
04						
03						
02						
01						

GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY		JAPAN INTERNATIONAL COOPERATION AGENCY TECHNICAL ASSISTANCE FOR RECONSTRUCTION PROJECT OF BRIDGE DAMAGED BY OCTOBER 8TH EARTHQUAKE ON THE JHILUM VALLEY ROAD SITE NO. 3 Slope Protection		DRAWING TITLE Cross Section e-e'	SCALE 1:500
DATUM = S+0		ALL DIMENSIONS IN MILLIMETERS		DATE MAY 2007	DWG. NO. 5/99-24-003



Road Side Gravity Wall

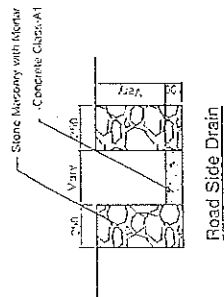


Foundation of Breast Wall

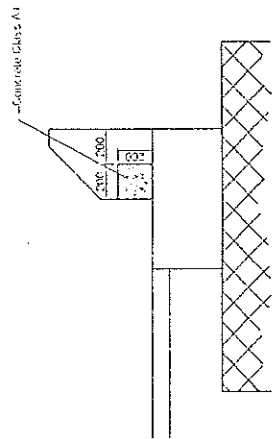
All Dimensions in Millimeters

GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: NIPPON KOGI CO., LTD. (NKC) ALMEC CORPORATION LTD. (ALMEC)	04	DESIGNED BY	Technical Assistance for Reconstruction Project of Bridge Damaged by October 8th Earthquake on The Jhelum Valley Road Site No. 3 Slope Protection	DRAWING TITLE	SCALE 1:40
		03	DRAWN BY		DETAILS OF WALLS	
		02	ASSISTED BY		DATE	
		01	RECOMMENDED BY		DATE	
			APPROVED BY		DATE	
			DESCRIPTION			

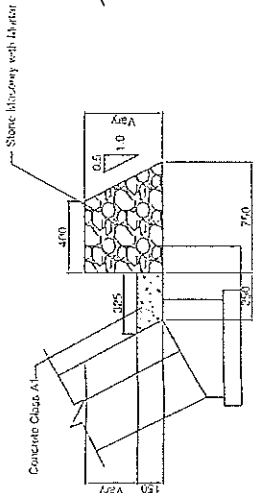
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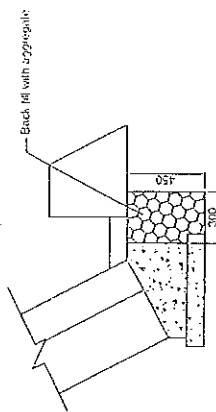
Road Side Drain



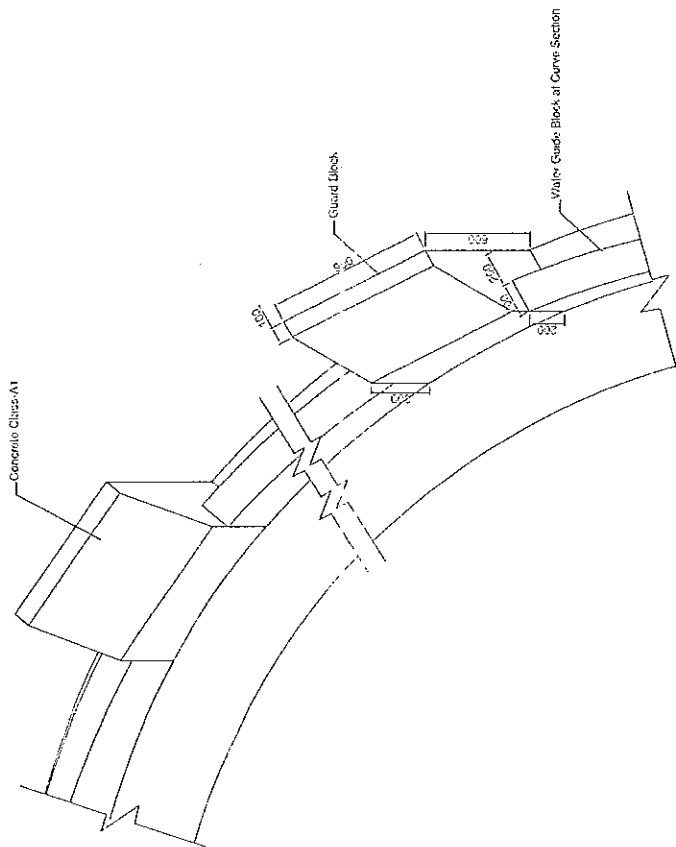
Water Guide Block at Curve Section



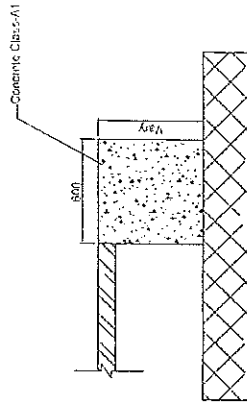
Road Side Drain



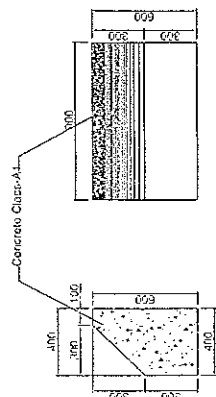
Subsoil Drain 300x450



Lean Concrete



Road Side Gravity Wall on Gabion



Guard Block

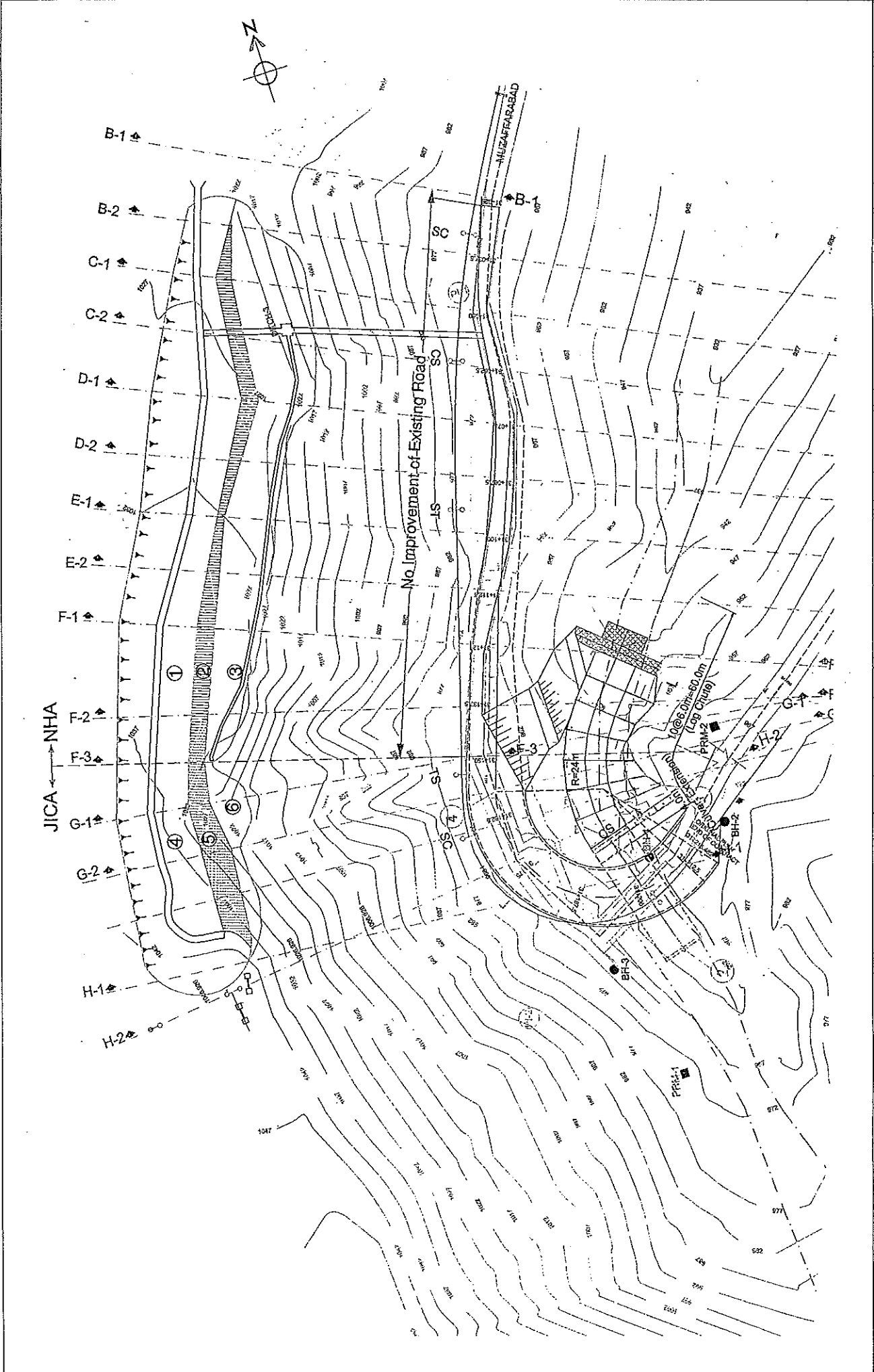
All Dimensions in Millimeters

<p>GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSISTED BY NIPPON KOEI CO., LTD. (NSK) ALMEC CORPORATION LTD. (ALMEC)</p>	04	DESIGNED BY	<p>Technical Assistance for Reconstruction Project of Bridges Damaged by October 8th Earthquake on The Jhelum Valley Road Site No. 3 Slope Protection</p>	DRAWING TITLE	<p>SCALE 1:30</p>
		03	DRAWN BY		DETAILS OF ROAD SIDE DRAIN AND BLOCKS	
02	ASSISTED BY	DATE	JUNE 2007		DWG. NO.	5356/016
01	RECOMMENDED BY	APPROVED BY				
		REV.	DATE	DESCRIPTION		

Bridge No.3 Revised Cost Summary

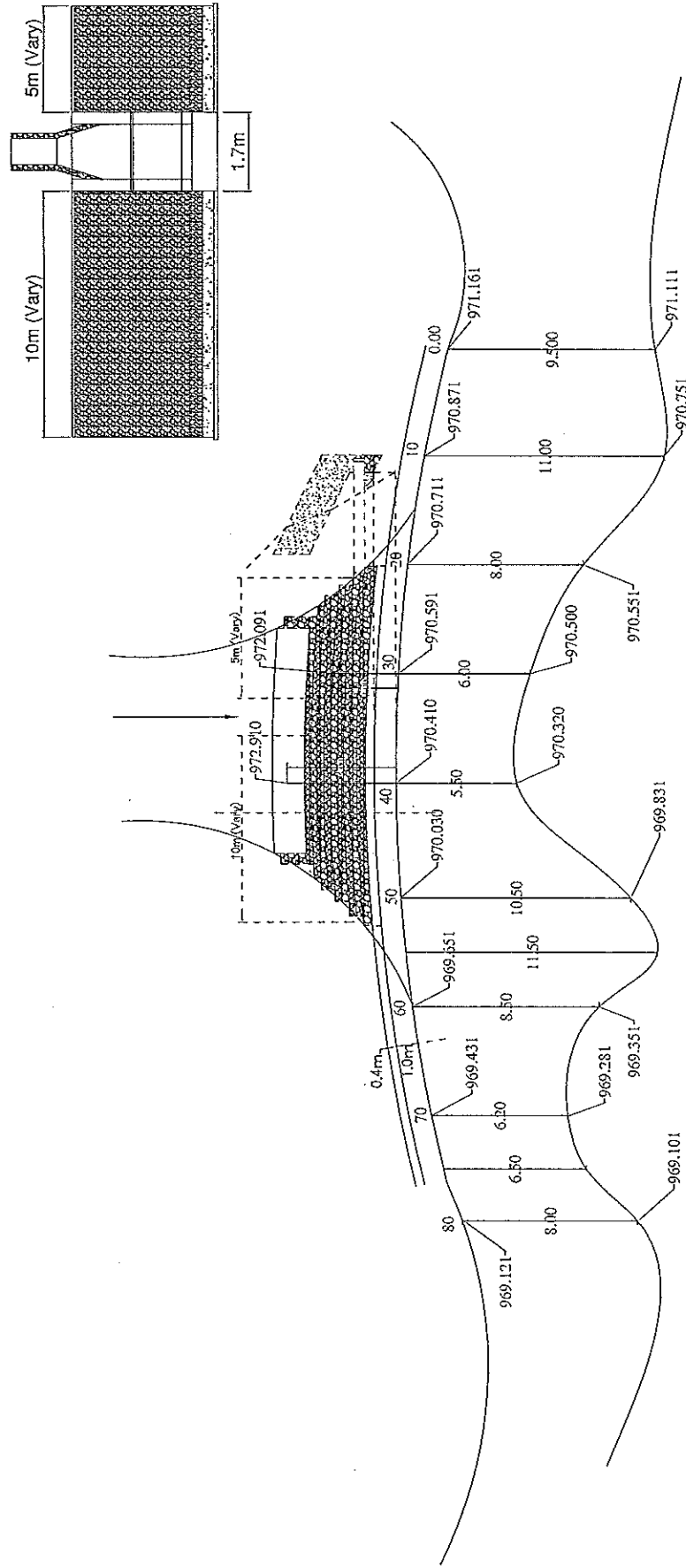
Cost Estimate based on the modified new rates estimated and prepared by Nippon Koei

	JICA (Original)	JICA (Revised)	NHA (Original)	NHA (Revised)	NHA (Revision considering 25 M Budget limit)	Remarks
Bridge No.3	23,513,314	22,392,668	0	0		
Slope Protection	20,654,570	3,461,956	47,394,527	8,853,876	8,853,876	
Road Works	8,182,368	5,113,773	2,605,474	12,731,134	1,000,000	Part of embankment (tentative)
Log Chute	0	8,815,606	0	20,444,768	11,700,000	JICA 3 blocks, NHA (7 to 4 blocks)
Additional gabion at the end of the log chute					620,000	250m3 (tentative) x 2469Rs/m3
Fiscal Contingency	0	0	0	4,202,978	2,217,388	10% of above
Add. Indirect Cost	0	4,000,000	0	0		Expected figure after negotiation
Total	52,350,252	43,784,003	50,000,002	46,232,756	24,391,264	
Difference		(8,566,249)		(3,767,246)		
Additional (Aug 2007-Feb. 2008) supervision fee		5,500,000				11,000,000 J. Yen
Additional gabion for slope protection of embankment around wing-walls and consolidation blocks at No.1&2 Bridge		3,000,000				500m3 x 2 x 2469Rs+500,000(*)=2,969,000, (*)Excavation & etc.
Estimated final balance of JICA portion		(66,249)				



<p>GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: jica NIPPON KAIEN CO., LTD. (NKC) ALMEC CORPORATION LTD. (ALMEC)</p>	<p>As Built Drawing</p>	<p>04</p>	<p>05</p>	<p>06</p>	<p>07</p>	<p>08</p>	<p>09</p>	<p>10</p>	<p>11</p>	<p>12</p>	<p>13</p>	<p>14</p>	<p>15</p>	<p>16</p>	<p>17</p>	<p>18</p>	<p>19</p>	<p>20</p>
			<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>	<p>REV.</p>
<p>Technical Assistance for Reconstruction Project of Bridges Damaged by October 8th Earthquake on The Jhelum Valley Road SITE NO.1 BRIDGE WORKS</p>		<p>General View of Sho No. 3</p>		<p>Scale 1:1000</p>		<p>DWG. NO. S3B-01-001</p>													

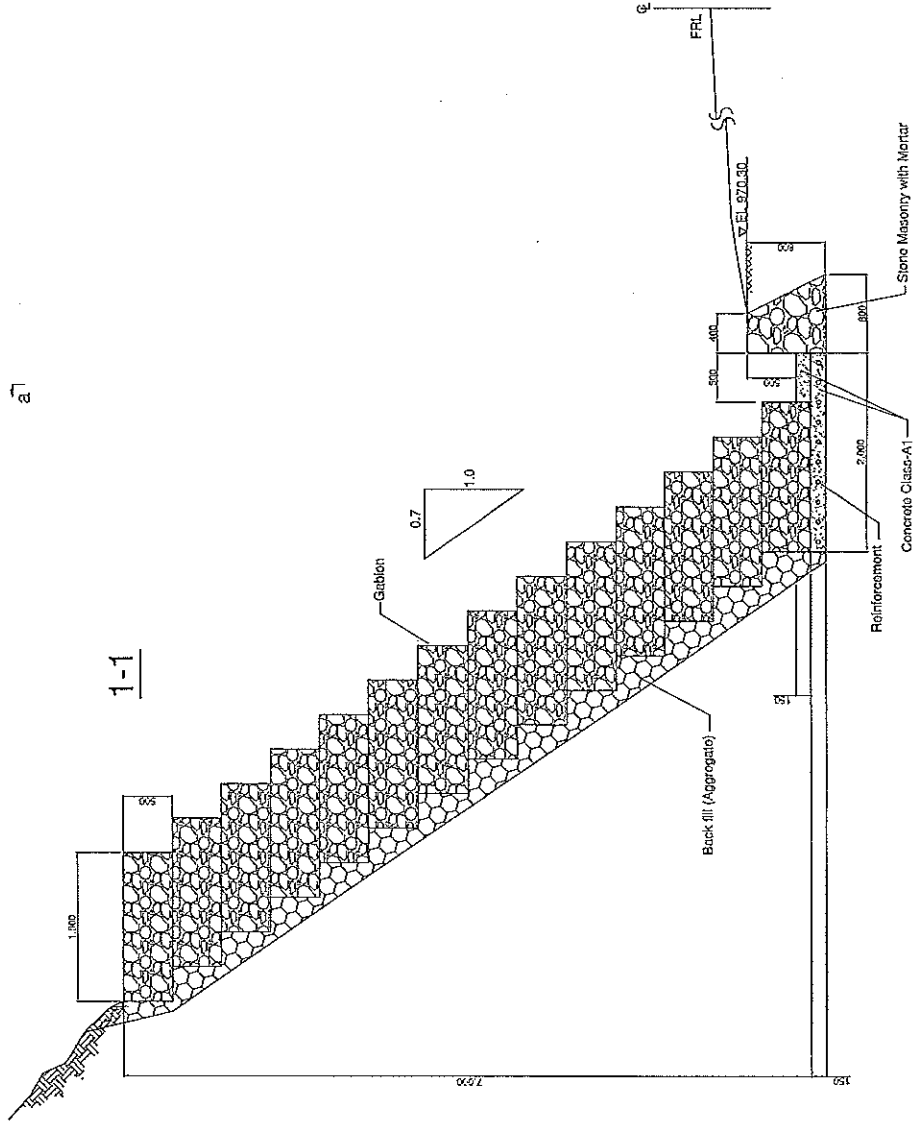
Place and Extension of the Gabion Wall and The End Chute will be fixed based on the site condition



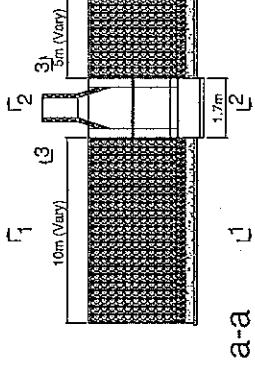
GOVERNMENT OF PAKISTAN MINISTRY OF COMMUNICATIONS NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY ASSIGNED TO: NIPPON KOEI CO., LTD. (NKS) ALMEC CORPORATION LTD. (ALMEC)	As Built Drawing	Details of Walls - 1	Scale 1:200
		04 03 02 01 REV.	DMC NO. 53B-02-001	Technical Assistance for Reconstruction Project of Bridges Damaged by October 8th Earthquake on The Jhelum Valley Road SITE NO.1 BRIDGE WORKS

Breast Wall

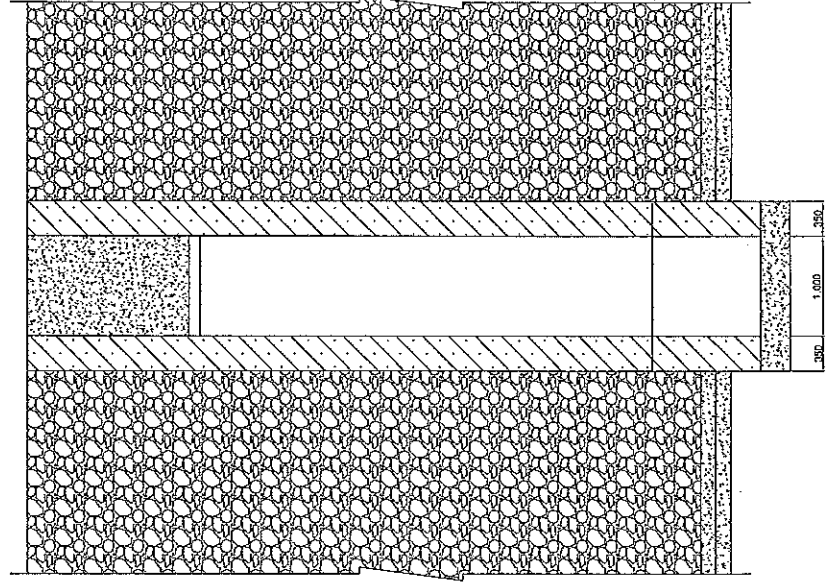
1-1



a)



a-a



GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
ASSIGNED TO:
JICA NIPPON KOEI CO., LTD. (NKS)
ALMEC CORPORATION LTD. (ALMEC)

REV.	DATE	DESCRIPTION
04		As Built Drawing
03		
02		
01		
REV.		

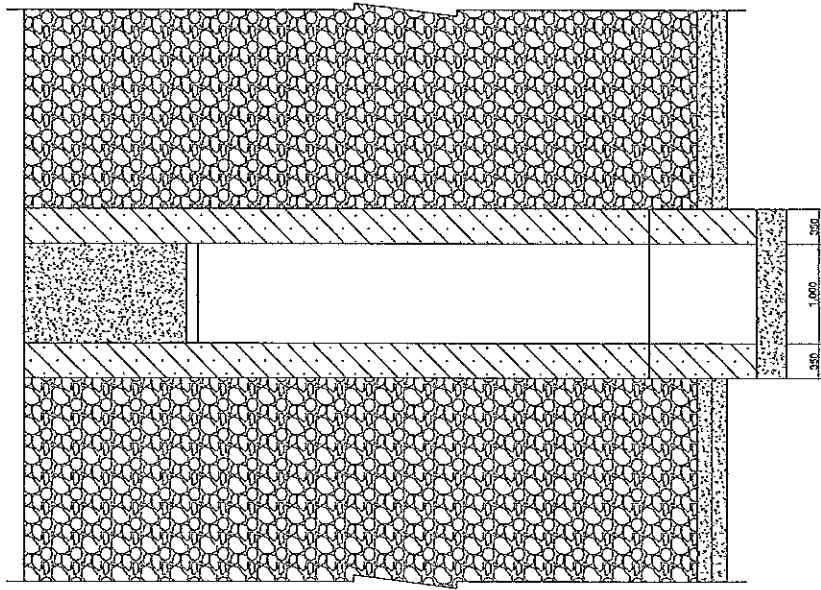
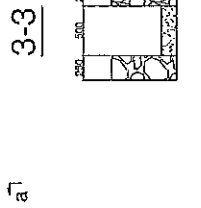
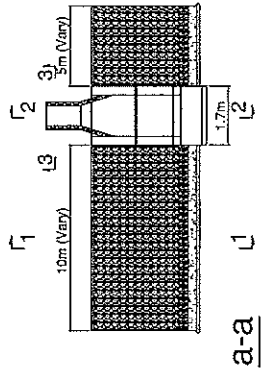
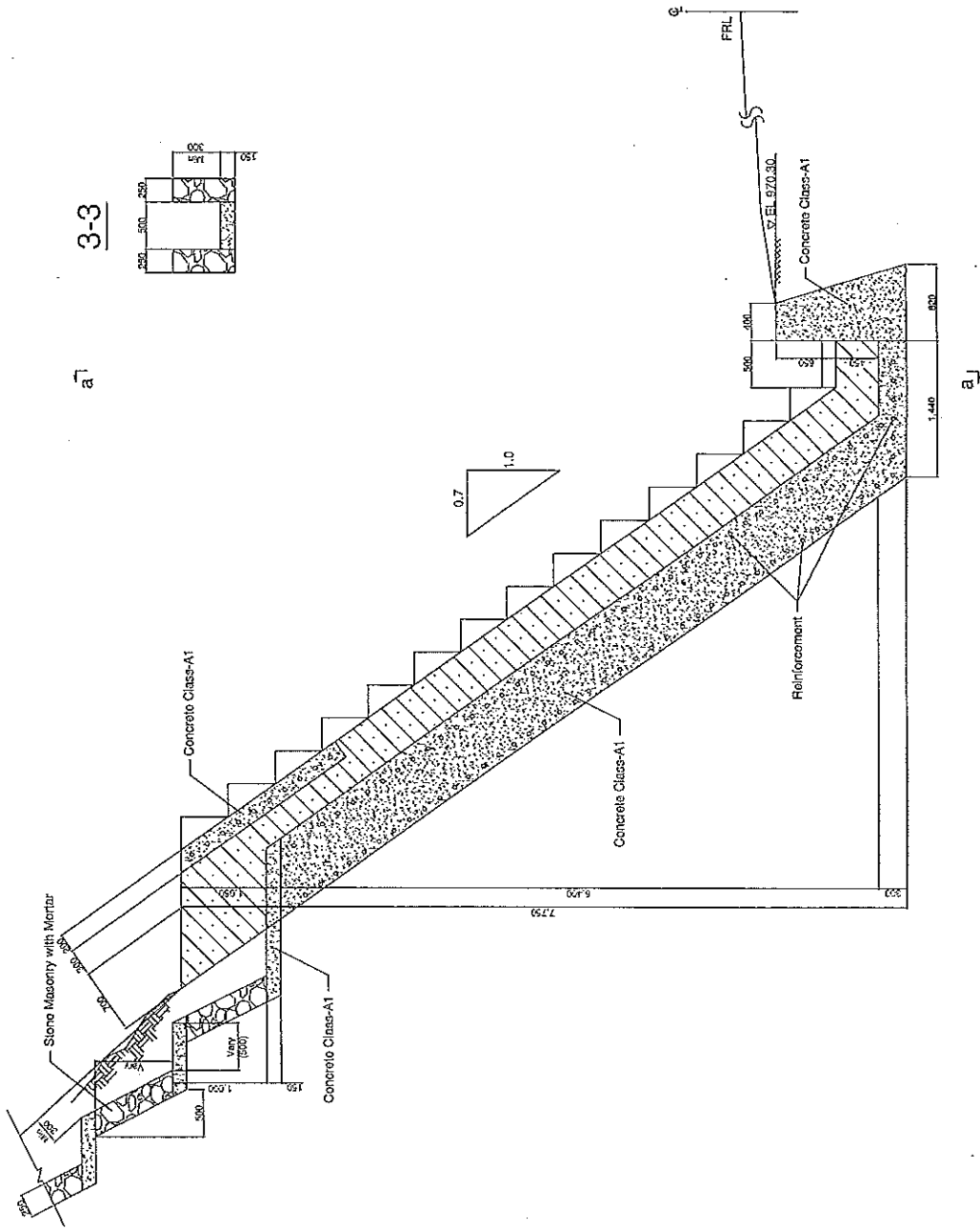
Technical Assistance for Reconstruction Project
of Bridges Damaged by October 8th Earthquake
on The Jhelum Valley Road
SITE NO.1 BRIDGE WORKS

Details of Wall - 2
DRAWING NO.

Scale
1:50
SCB-02-002

Breast Wall

2-2



GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
ASSIGNED TO:
JICA
ANIPRON KOEI CO., LTD. (NIK)
ALMEC CORPORATION LTD. (ALMEC)

NO.	DATE	REVISION
01		As Built Drawing
02		
03		
04		
05		

Technical Assistance for Reconstruction Project
of Bridges Damaged by October 8th Earthquake
on The Jhelum Valley Road
SITE NO.1 BRIDGE WORKS

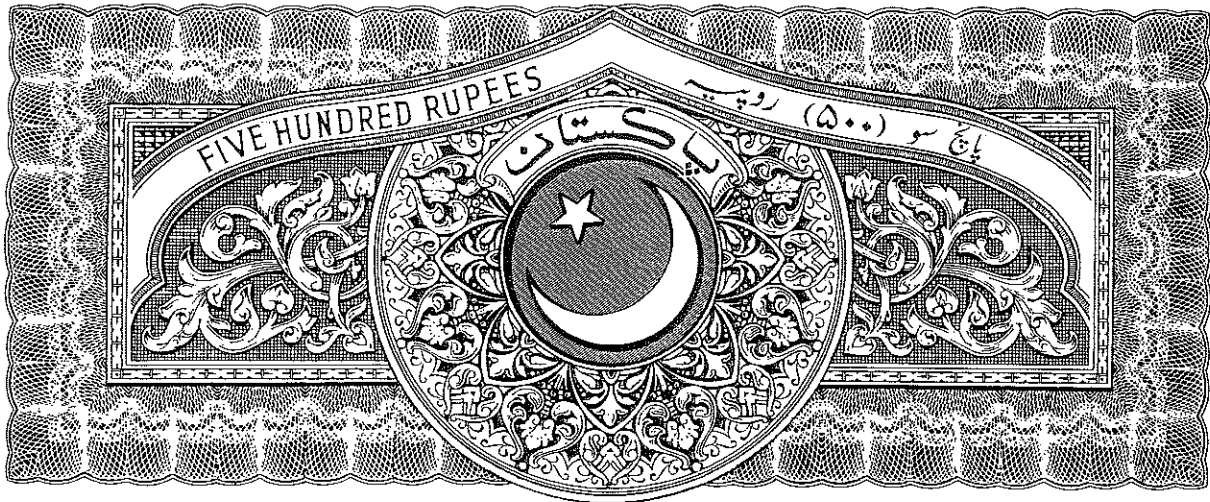
Drawn By: _____
Checked By: _____
Date: _____

Serial
1/50

Drawn No. CSB-02-003

APPENDIX - B

B-4: Contract Agreements



CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road

THIS AGREEMENT, made this 25TH day of July 2006, between Nippon Koei Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S Sambu Construction Co. Ltd, (hereinafter referred to as "the Contractor"), incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness the as follows:

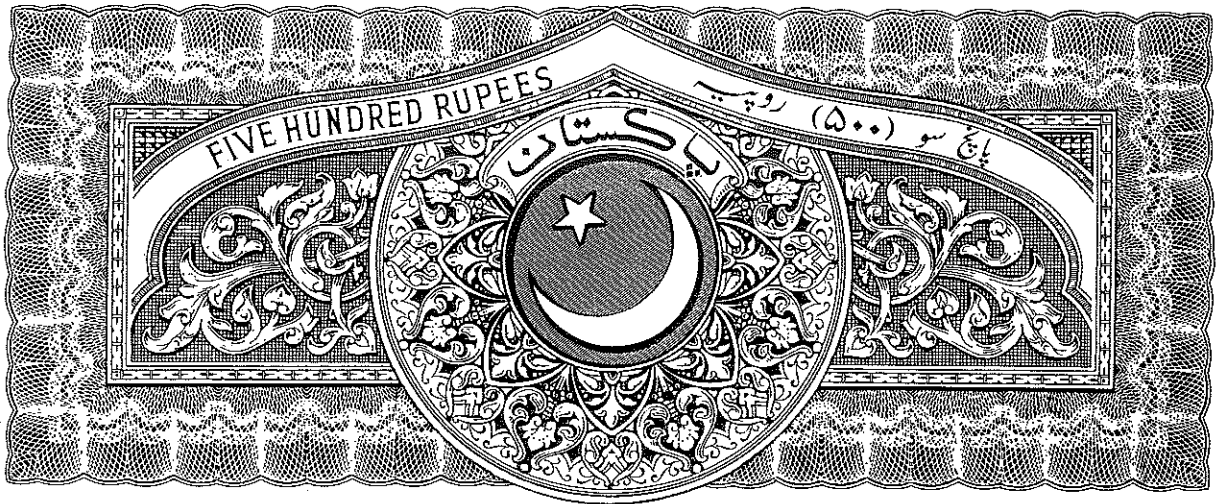
1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement
 - (b) The letter of Acceptance
 - (c) Notice to Proceed
 - (d) The Bid
 - (e) The addenda/addendum (if any)
 - (f) The Condition of Particular Application -- Part 7
 - (g) The General Conditions of Contract;
 - (h) The Drawings
 - (i) The Specifications
 - (j) The Priced Bill of Quantities
 - (k) Any other documents forming part of the Contract, such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirements of the contract Documents is:

Amount in words Pak Rupees. One Hundred Seventeen Million Three Hundred seventy Three Thousand Three Hundred Nineteen.Only (Pak Rupees: 117,373,319/=).

The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The time for completion of the Works shall be within Twelve (12) months from the Commencement Day.



The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied:
 - a. Each of the parties has signed this Agreement
 - b. Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's Bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as follows

Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre,
Address of Bank:	Habib Bank Tower, Blue Area, Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction CO., Ltd
Account Number:	50048-8

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Client:

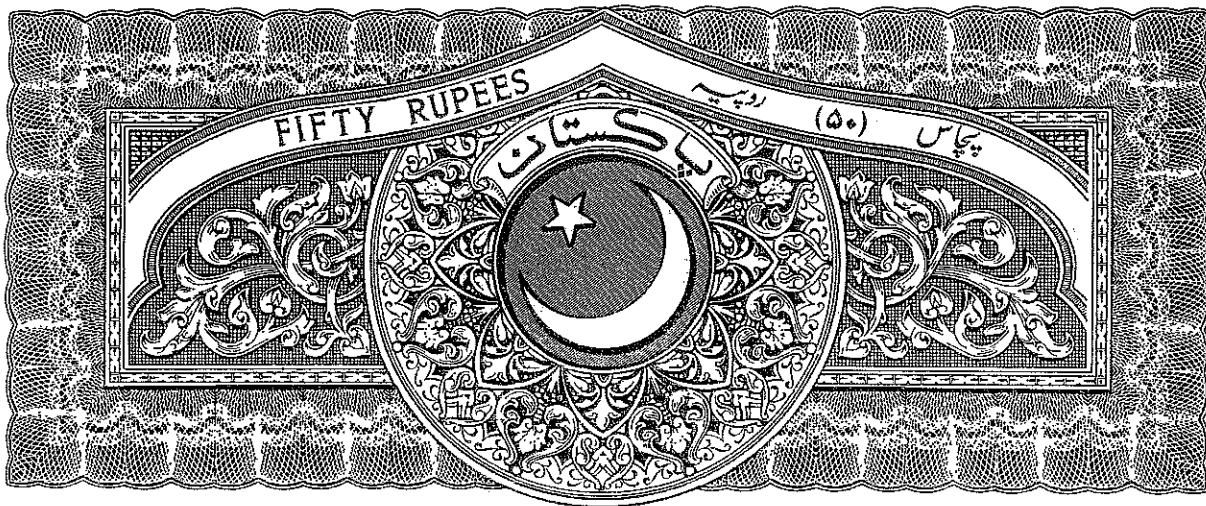
Sung Hoon Oh
 Director Pakistan
 Sambu Construction Co., Ltd.
 Opp. Dera Taj Railway Station
 P.O.Box. 90,
 Khanewal
 Pakistan

Masaru HOMMA
 Authorised Representative
 The Reconstruction of Bridges Damaged by
 October 8 Earthquake on the Jhelum Valley
 Road
 Jhelum Valley Road Project Office
 Nippon Koei Co., Ltd.
 c/o NTRC Office
 Sector H-8/2, Street 5 & 6, Islamabad,
 PAKISTAN



(Witness)

(Witness)



CONTRACT AGREEMENT

Slope Protection Work from 31+025 to 31+150 on the Jhelum Valley Road

THIS AGREEMENT, made this 2nd day of Nov-2006, between Nippon Koei Co Ltd. (hereinafter referred to as "the Client") for the project of construction of Slope Protection work from 31+025 to 31+150 on the Jhelum Valley Road of the one part, and M/S Sambu Construction Co.Ltd,(hereinafter referred to as "the Contractor"), incorporated under the laws of the Pakistan with the registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of the any defects therein.

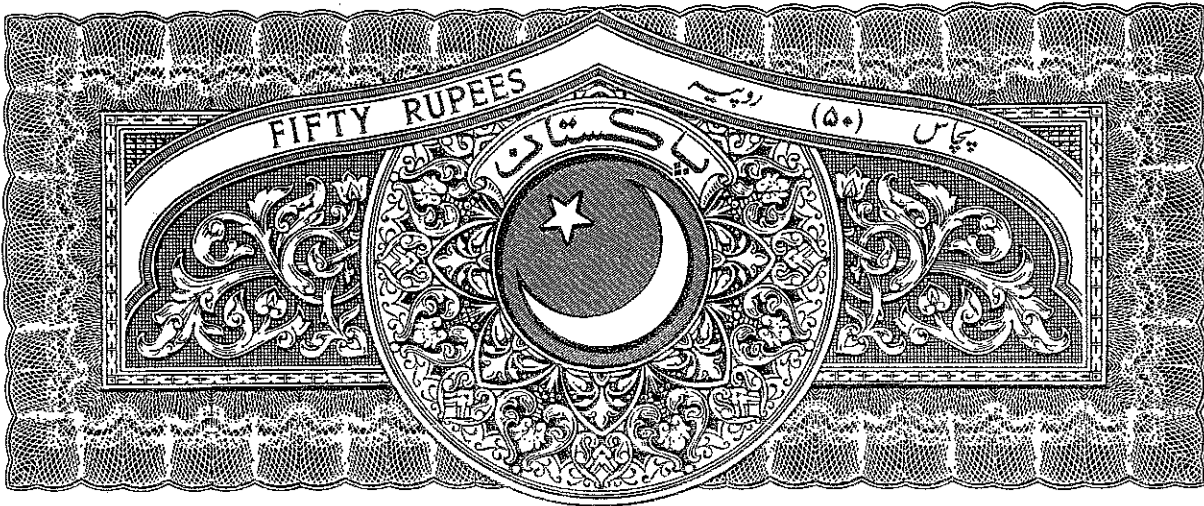
Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement
 - (b) The letter of Acceptance
 - (c) Notice to Proceed
 - (d) The Bid
 - (e) The addenda/addendum (if any)
 - (f) The Condition of Particular Application-Part 7
 - (g) The General Conditions of Contract;
 - (h) The Drawings
 - (i) The Specifications.
 - (j) The Priced Bill of Quantities
 - (k) Any other documents forming part of the Contract, such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirements of the contract Documents is:



Sung Hoon Oh

M. H



Amount in words Pak Rupees Fifty million one rupee and seventy nine Pisas only (Pak Rupees 50,000,001.79) the payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The time for completion of the Works shall be 31st day of July 2007.

The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied.
- Each of the parties has signed this agreement
 - Necessary approval on this agreement has been made by the Nippon Koei Co., Ltd.
8. Contractor's Bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as following

Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre
Address of Bank:	Habib Bank Tower, Blue Area, Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction Co., Ltd.
Account Number:	50048-8

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Sung Hoon Oh

Sung Hoon Oh
Director (Pakistan)
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station
P.O.Box. 90,
Pakistan



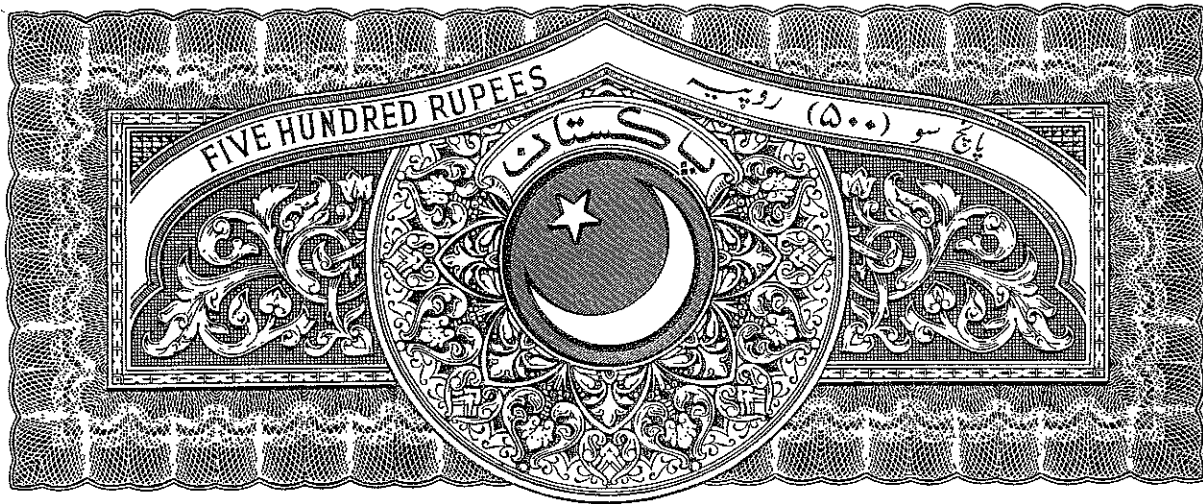
Client:

Masaru Homma

Masaru Homma
Project Manager
Jhelum Valley Road Project
Nippon Koei Co., Ltd.
B-47, Upper Chatter,
Muzaffarabad, AJK, Pakistan

Witness

Witness



CONTRACT AGREEMENT

Pakistan Transport Plan Study (Implementation) (The Second Year)

THIS AGREEMENT, made this 21st day of February 2007 Nippon Koei Co., Ltd., The Study Team for Pakistan Transport Plan Study (Implementation) (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. This Contract Agreement shall be deemed to be read and construed in conjunction with the following documents already mutually signed to constitute its integral component/part.
 - a) The letter of Acceptance
 - b) Notice to Proceed
 - c) The Bid
 - d) The Addenda/Addendum (if any).
 - e) The Condition of Particular Application—Part 7
 - f) The General Conditions of Contract;
 - g) The Drawings
 - h) The Specifications
 - i) The Priced of Quantities
 - j) Any other documents forming part of the Contract such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other some as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Amount in words Pak Rupees Forty Eight Million Six Hundred and seventeen Thousand Nine Hundred and Eight and Paise Thirty Two only (Pak Rupees = 48,617,908.32).

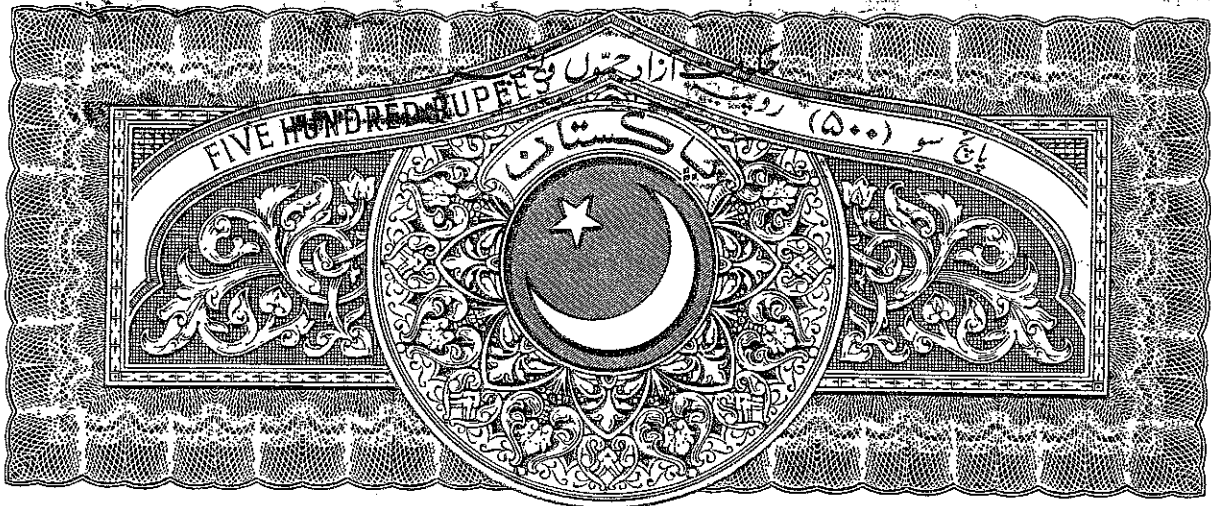
The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.
6. The time for completion of the Works shall be within Five (5) months and eight (8) days from 21st February 2007.

The Defect Liability Period shall be three hundred sixty five (365) days calculated from the date of issue of "Taking-Over Certificate" according to the Conditions of Contract.

Sung Hoon Oh

M. H

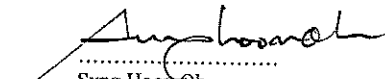



7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
- Each of the parties has signed this Agreement.
 - Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.
- Are as follows:
- | | |
|-------------------|---------------------------------------------------------------|
| Name of Bank: | Bank Alfala Limited, |
| Name of Branch: | Railway Road Chicha Watni Branch, |
| Address of Bank: | Bank Alfala Limited, Railway Road Chicha Watni (0116) Punjab. |
| Type of Currency: | Pak Rupees |
| Beneficiary: | Sambu Construction CO., Ltd |
| Account Number | 0116-02900090. |

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Client:


 Sung Hoon Oh
 Director Pakistan
 Sambu Construction Co., Ltd.
 Opp. Dera Taj Railway Station
 P.O.Box.90,
 Khanewal
 Pakistan

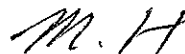
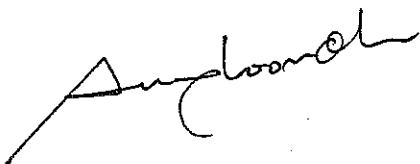

 Masaru HOMMA
 Authorized Representative
 Pakistan Transport Plan Study (Implementation)
 (The Second Year)
 Jhelum Valley Road Project Office
 Nippon Koei Co., Ltd.
 C/o Nippon Koei office
 B-47 Upper Chatter, Muzaffarabad, AJK,
 Pakistan.

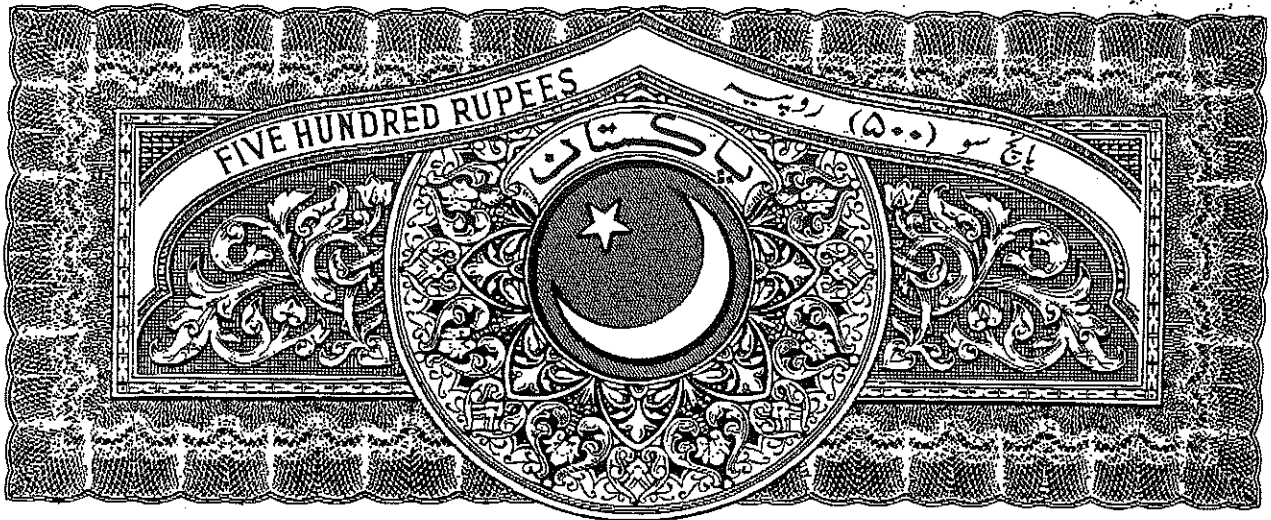
.....
 (Witness)

.....
 (Witness)

APPENDIX TO BID

	Sub-Clause	
Ruling Language	3.01	English
Minimum amount of third party insurance	4.01 (5)	As required by Law
Effective date of Insurance	4.01 (5)	Prior to the commencement of the Works
Amount of Performance Security	4.02	10% of the Contract Price
Period for submission of Performance Security	4.03	Date of Substantially completed
Amount of Advance Payment Security	4.04	100% of the Advance Payment
Period for Advance Payment Security	4.05	Refund of Advance Payment completed
Commencement of Works	6.01	7 days after the receipt of Notice to Proceed
Time for Completion of whole Works	6.01	161 days from the commencement date
Liquidated Damages for Delay	6.02	0.1% of the Contract Price for each day of delay
Maximum Amount of Liquidated Damage	6.02	10% of the Total Contract Price
Defect Liability Period	7.01	365days
Percentage of Retention	9.02	5% of the Progress Payment
Limit of Retention Money	9.02	5% of the Contract Price
Time for Contractor's Progress Payment	9.02	14 days after receipt of the Progress Payment Statement
Currency of Payment	9.02	Pak Rupees (Rs.)
Advance Payment	9.03	20.0% of the Contract Price
Time for Advance Payment	9.03	Within 10 days after the mobilization of major construction equipment to the site.





REVISED CONTRACT AGREEMENT

Reconstruction of Bridges damaged by October 8 Earthquake on Jhelum Valley Road

THIS REVISED AGREEMENT, made this 1st day of August 2007 Nippon Koei Co., Ltd., The Reconstruction of bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co., Ltd. (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O Box No.90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the client is desirous that certain works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.

Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any)
 - f) The Condition of Particular Application -- Part 7
 - g) The General Conditions of Contract
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Original and Revised)
 - k) Any Other documents forming part of the Contract such as Letter Approved by the Client etc.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the executing and completion of the works and the remedying of defects therein the Contract Price or such other sums as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Provisional Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Provisional amount in words Pak Rupees seventy Eight million only (Pak Rupees = 78,000,000/-)

The payment to the Contractor shall be made in Pak Rupees based on the Bill of Quantities prepared based on the actual measurement and the original drawings and supplemental drawings for the No.3 Bridge provided by the Client on 13 July 2007.

The Provisional amount shall be revised based on the Final Priced Bill of Quantities prepared based on the final measurement.

The payment schedule is described in Article 9 of General Conditions of Contract.

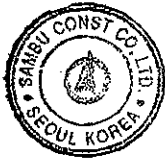
6. The extended time for completion of the Works shall be upto 20th February 2008.
7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
 - a) Each of the parties has signed this Agreement.
 - b) Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.

Are as follows:

Name of Bank:	Habib Bank Ltd,
Name of Branch:	Corporate Centre,
Address of Bank:	Habib Bank Tower Blue Area Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction Co., Ltd
Account Number:	50048-8

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:



Sung Hoon Oh

Sung Hoon Oh
Director Pakistan
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station Road
Khanewal, Pakistan

Client:

Yoshihisa Yamashita

Yoshihisa YAMASHITA
Authorized Representative
The Reconstruction of Bridges damaged
by Oct.8 earthquake on the Jhelum Valley,
P.O.Box 90, Jhelum Valley Road Project Office

Nippon Koei Co., Ltd.
C/o NTRC Office
Sector H - 8/2, Street 5 & 6
Islamabad, Pakistan

(Witness)

(Witness)

NATIONAL HIGHWAY AUTHORITY

27-Mauve Area, G-9/1, Islamabad
Ph: 051-9261208 Fax: 051-9260216

No. (34)/NHA/M(Ops)/07 / 156

October 1st 2007

→ Mr. Yoshihisa Yamashita
Project Manager
Nippon Koei Co. Ltd
Jhelum Valley Road Project
Muzaffarabad.

Subject: **AGREEMENT FOR SLOPE PROTECTION WORKS AT BRIDGE NO. 03,
JHELM VALLEY ROAD PROJECT FOR RECONSTRUCTION OF
BRIDGES DAMAGED BY OCT 8 EARTHQUAKE.**

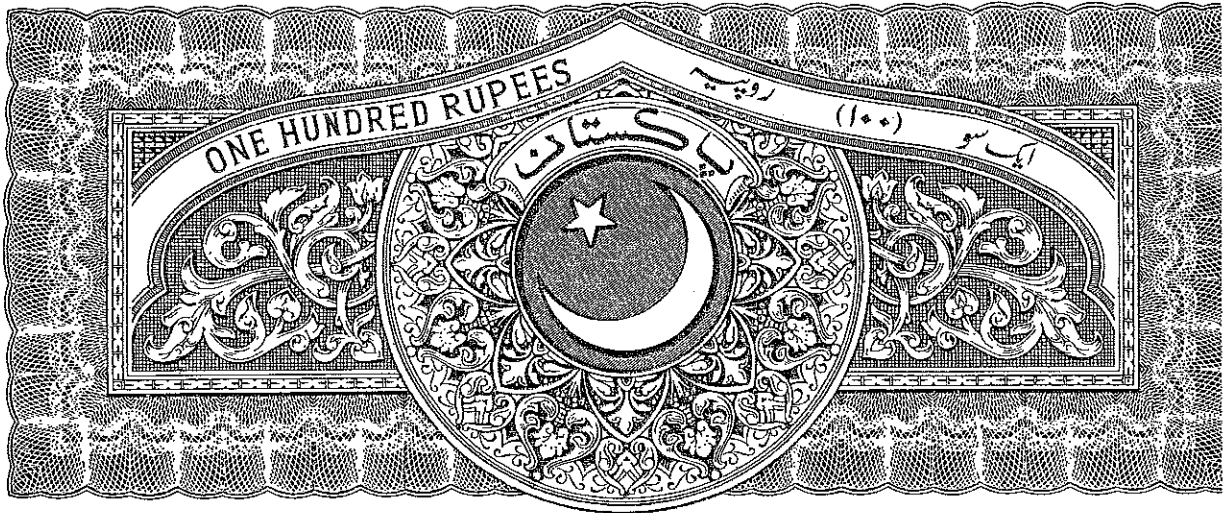
Ref: Your Office letter # 182 dated 13th September 2007.

Please find enclosed herewith a signed copy of the agreement regarding subject matter,
please.


(SHAHID IHSAN ULLAH) 11/10
Staff Officer

C.C:-

- Member (Ops) NHA HQ.



AGREEMENT

**for Slope Protection Work from km 31+025 to 31+150 on the Jhelum Valley Road
Reconstruction of Bridges Damaged by October 8 Earthquake on the Jhelum Valley Road**

This Agreement is made on the day of September, 2007 between National Highway Authority, Government of Pakistan, having an office at 27-Mauve Area, G-9/1, P.O.Box 1205, Islamabad, Pakistan (hereinafter called "the Employer") and Nippon Koei Co., Ltd. having an office at H. No. B-46 Upper Chatter, Muzaffarabad, AJK, Pakistan (hereinafter called "the Consultant") based on the understanding and agreement between the Employer and the Consultant up to date.

WHEREAS

- (a) The Consultant had been assigned as a JICA Study Team by Japan International Cooperation Agency (JICA) to design and prepare tender documents for the Reconstruction of damaged Bridges inclusive of Slope Protection Works from km 31+025 to 31+150 (NHA portion) by October 8 Earthquake along the Jhelum Valley Road Project in Pakistan (hereinafter called the "Project").
- (b) After completing the design and preparation of tender documents, the Consultant has also been assigned by JICA to conduct the Project (excluding the NHA portion) as a JICA Study Team by employing Sambu Construction Co., Ltd., incorporated under the laws of Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh (hereinafter called "the Contractor") as informed by JICA Pakistan Office, letter No. JICA/08-01007/admin/2006 dated August 1, 2006(copy enclosed).
- (c) Because of the budgetary limitation of JICA, the Employer decided to take up and complete the Slope Protection Works from km 31+025 to 31+150 (NHA portion) with an amount of Pakistani Rupees Fifty Million One and Paisas Seventy Nine only (Pak Rs. 50,000,001.79/-) to be paid by the Employer.
- (d) The Employer had requested the Consultant to sign the contract with the Contractor as the Employer's representative for Slope Protection Work from km 31+025 to 31+150 on the Project (hereinafter called the "Contract"). The contract documents were prepared by the JICA Study Team and were used for the JICA portion.
- (e) The Employer has also requested the Consultant to monitor the construction works under the Contract and transfer the Contract amount to the Contractor on behalf of the Employer.
- (f) The Consultant has agreed with the Employer to accept the Employer's requests stated in the provisions (d) and (e) hereinabove and signed the Contract with the Contractor on 13th November 2006.

NOW THEREFORE, the Employer and the Consultant hereby agree as follows;

1. No payment other than the amount to be paid to the Contractor shall be made to the Consultant by the Employer under this Agreement.
2. The amount to be transferred to the Contractor through the Consultant is Pakistani Rupees Fifty Million One and Paisas Seventy Nine only (Pak Rs. 50,000,001.79/-). However, this amount is a budgetary provision for the Contract and the final amount of the Contract will be determined and paid to the Contractor in accordance with the actual quantities of the construction works to be measured by the JICA Study Team.
3. Neither the Contractor nor the Consultant shall be liable to any local taxation which may be applied in Pakistan and the Employer shall bear such taxes in lieu if became applicable.
4. The Consultant's bank particulars and account number to which the payment due shall be credited against the Project are given hereunder.

Name of Bank: Standard Chartered Bank
Name of Branch: SCB-Islamabad
Title: M/S Nippon Koei Co., Ltd.
Account Number: 01737227201

5. This Agreement shall be effective for the amended contract amount of PAK Rupees (25,000,000) twenty five million instead of PAK Rupees 50,000,001.79 mentioned at provisions (c) and 2 above for NHA portion (part only) as approved by the Chairman NHA during the meeting held on the 7th September, 2007.
6. Any amendment or modification, if necessary, may be negotiated between the parties hereto and shall be agreed upon by a written document signed by both the parties.
7. This Agreement shall take effect from the date first above written and shall remain effective until the final payment is transferred to the Contractor by the Consultant in accordance with the provision 5. hereinabove.

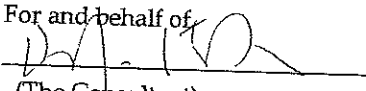
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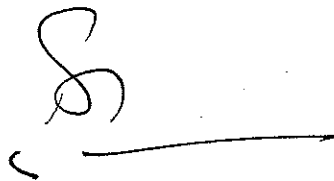
Dr. H. 2

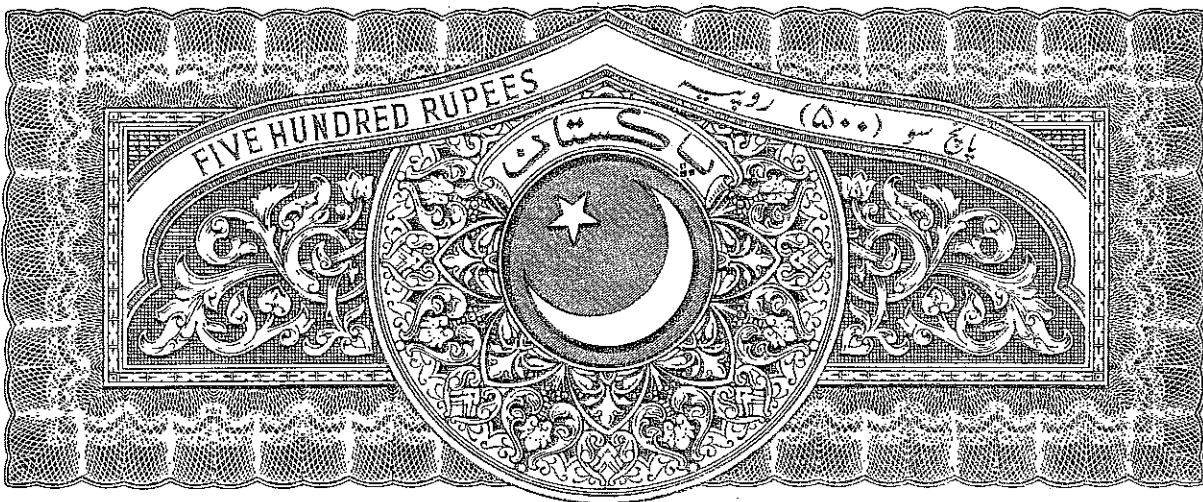
IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be signed in their respective names in two identical counterparts, each of which shall be deemed as the original, as of the day and year first above written.

For and on behalf of
National Highway Authority
(The Employer)
Brig. Shahid Majeed SI (M)
Member (Operations)
National Highway Authority
Islamabad

Authorized Representative

For and behalf of

(The Consultant)
Yoshihisa YAMASHITA
Deputy General Manager
Transportation Engineering
Division
Nippon Koei Co., Ltd.





REVISED CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road.

THIS REVISED AGREEMENT, made this 23rd day of January 2008 Nippon Koei Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any).
 - f) The Condition of Particular Application—Part 7
 - g) The General Conditions of Contract;
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Revised)
 - k) Any other documents forming part of the Contract such as Letter Approved by the Client ect.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy and any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other some as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Amount in words Pak Rupees Seventy Eight Million Two Hundred Seventy Four Thousand Six Hundred and Sixty Five only (Pak Rupees = 78,274,665/-).

Sung Hoon Oh

J.

The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.

6. The extended time for completion of the Works shall be upto 31st January 2008 from the Commencement day.
7. This Agreement shall become affective upon the latest date when the following conditions have been satisfied:
 - a) Each of the parties has signed this Agreement.
 - b) Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.

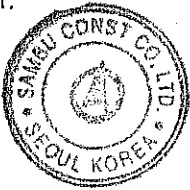
Are as follows:

Name of Bank:	Allied Bank Limited,
Name of Branch:	Main Branch,
Address of Bank:	Blue Area Islamabad
Type of Currency:	Pak Rupees
Beneficiary:	Sambu Construction CO., Ltd
Account Number	0115100278

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:

Client:



Sung Hoon Oh

.....
Sung Hoon Oh
Director Pakistan
Sambu Construction Co., Ltd.
Opp. Dera Taj Railway Station
P.O.Box.90,
Khanewal
Pakistan

Yoshihisa Yamashita

.....
Yoshihisa YAMASHITA
Authorized Representative
The Reconstruction of bridges damaged
by Oct.8 earthquake on the JhelumValley
Road.
Jhelum Valley Road Project Office
Nippon Koei Co., Ltd.
C/o NTRC office
Sector H-8/2, Street 5 &6, Islamabad,
Pakistan.

Siraj-ud-Din

.....
(Witness)

SIRAJ-UD-DIN
Co-ordinator

.....
(Witness)



Jhelum Valley Road Project in the Islamic Republic of Pakistan

House No. B-46, Upper Chatter Muzaffarabad.

Tel: 0992-590780
0992-590777
Fax: 05881034898

Our Ref: - JVRP-0605-

Dated: 14th February 2008

PROJECT MANAGER
M/S SAMBU CONSTRUCTION CO. LTD
MUZAFFARABAD

Subject: FINAL PAYEMENT
JHELUM VALLEY ROAD PROJECT FOR RECONSTRUCTION
OF BRIDGES DAMAGED BY OCT' 8 EARTHQUAKE.

We are pleased to finalise payment account of the project as under:

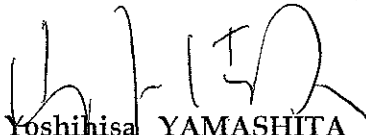
- Final contract Amount: **PKR 175,415,434.64**
- Paid in FY 2006: **(-) PKR 97,006,418.30**
- Balance: **PKR 78,409,016.34**
- Already paid upto to IPC 15: **(-) PKR 64,305,236.77**
- Balance Final Payable: **PKR 14,103,779.57**

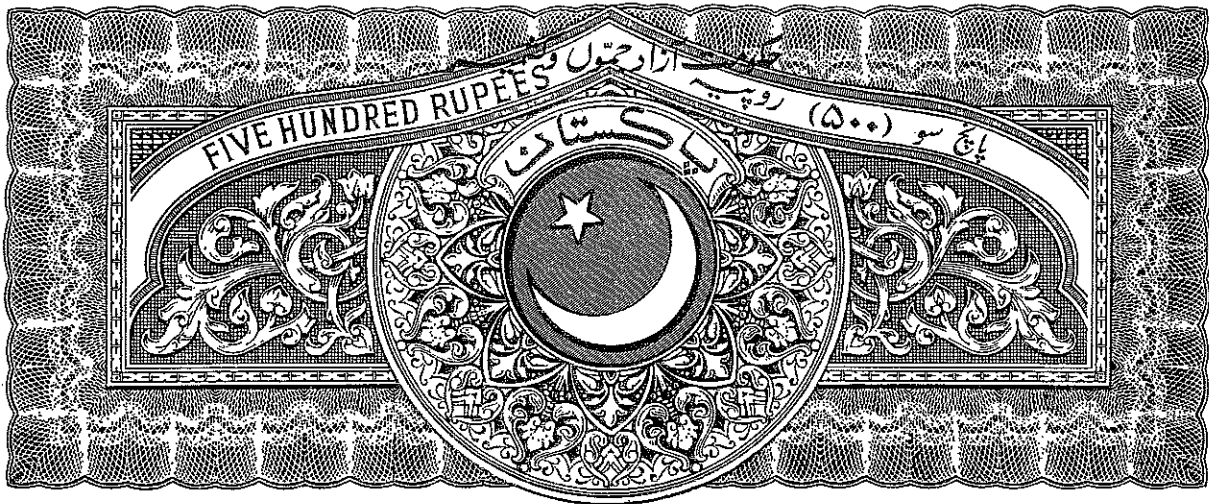
2. The above final payable amount includes reimbursement of the five percent (5%) Retention Money deducted under the contract clause 9.02 subject to the condition that M/S SAMBU Construction Co., the Contractor, shall furnish a Bank Guarantee of a scheduled Bank for the equivalent amount thereof.

3. Final afore-mentioned due amount shall be payed on production of the requisite Bank Guarantee in original.

4. An early action is advised to enable us to wrap up the final accounts of the project.

Thanking you,


Yoshihisa YAMASHITA
Project Manager
Nippon Koei Co., Ltd
Jhelum Valley Road Project
House No. B-47, Upper Chatter
Muzaffarabad.



REVISED CONTRACT AGREEMENT

Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road.

THIS REVISED AGREEMENT, made this ²³ day of ^{February} ~~January~~ 2008 Nippon Koei Co., Ltd., The Reconstruction of Bridges Damaged by October 8 Earthquake on Jhelum Valley Road (hereinafter referred to as "the Client") of the one part, and M/S SAMBU Construction Co.Ltd, (hereinafter referred to as "the Contractor") incorporated under the laws of the Pakistan with its registered office at Opp Dera Taj Railway Station, P.O. Box No. 90, Khanewal, Pakistan represented by Mr. Sung Hoon Oh of the other part.

Whereas the Client is desirous that certain Works should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

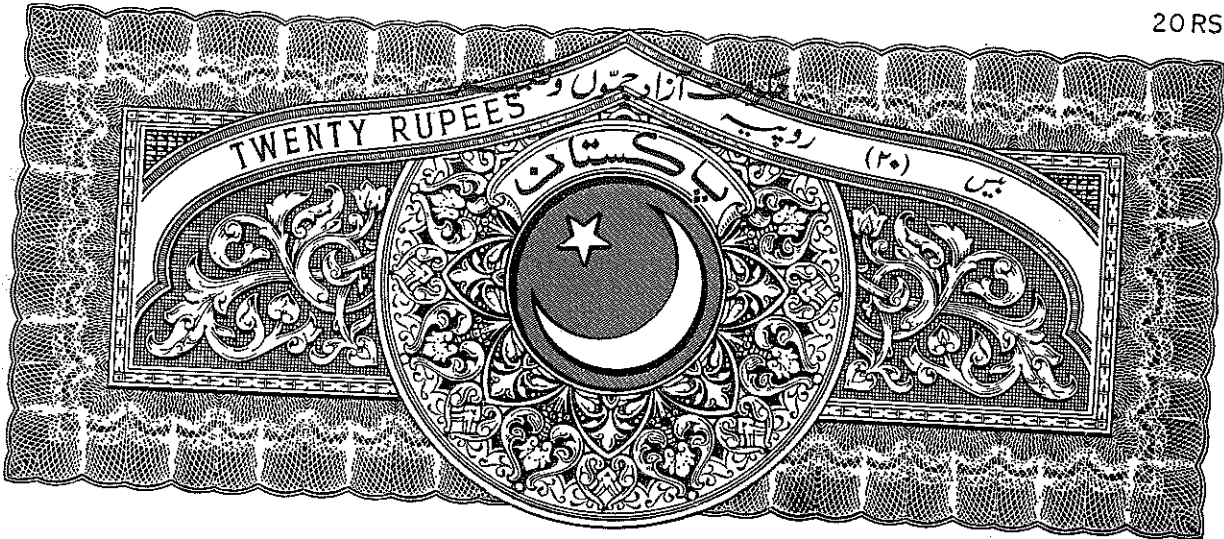
Now this Agreement witness the as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, VIZ:
 - a) The Contract Agreement
 - b) The letter of Acceptance
 - c) Notice to Proceed
 - d) The Bid
 - e) The Addenda/Addendum (if any).
 - f) The Condition of Particular Application—Part 7
 - g) The General Conditions of Contract;
 - h) The Drawings
 - i) The Specifications
 - j) The Priced Bill of Quantities (Revised)
 - k) Any other documents forming part of the Contract such as Letter Approved by the Client ect.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to execute and complete the works remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Client hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Contract Price to be paid by the Client to the Contractor subject to the requirement of the Contract Documents is:

Amount in words Pak Rupees Seventy Eight Million Four Hundred Nine Thousand and sixteen and Paisas Thirty Four only (Pak Rupees = 78,409,016.34).

The payment to the Contractor shall be made in Pak Rupees.

The payment schedule is described in Article 9 of General Conditions of Contract.
6. The extended time for completion of the Works shall be upto 31st January 2008 from the Commencement day.



7. This Agreement shall become effective upon the latest date when the following conditions have been satisfied:
- a) Each of the parties has signed this Agreement.
 - b) Necessary approval on this Agreement has been made by the Japan International Cooperation Agency.
8. Contractor's bank particulars and Account Number to which the payments due shall be credited against this Project.
- Are as follows:
- | | |
|-------------------|------------------------------------|
| Name of Bank: | Allied Bank Limited, |
| Name of Branch: | Main Branch, |
| Address of Bank: | Blue Area Islamabad |
| Type of Currency: | Pak Rupees |
| Beneficiary: | Sambu Construction CO., Ltd |
| Account Number | 0115100278. |

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first above written.

Contractor:



Client:

Sung Hoon Oh

 Sung Hoon Oh
 Director Pakistan
 Sambu Construction Co., Ltd.
 Opp. Dera Taj Railway Station
 P.O.Box.90,
 Khanewal
 Pakistan

Yoshihisa Yamashita

 Yoshihisa YAMASHITA
 Authorized Representative
 The Reconstruction of bridges damaged
 by Oct.8 earthquake on the Jhelum Valley
 Road.
 Jhelum Valley Road Project Office
 Nippon Koei Co., Ltd.
 C/o NTRC office
 Sector H-8/2, Street 5 &6, Islamabad,
 Pakistan.

Witness Signature

 (Witness)

.....
 (Witness)

JHELUM VALLAY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid in FY2006 (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,693,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	
		Advance	9,723,581.00			Mob.adv/JICA/058
		IPC 6	5,123,008.67			NK-065
		IPC 7	8,400,056.34			NK-069
		IPC 8	9,834,024.84			NK-070
		IPC 9	7,300,597.87			NK-077&076
		IPC 10	5,144,595.15			NK-095, Aug.31, 2007
		IPC 11	8,374,949.00			NK-095, Oct 9, 2007
		IPC 12	5,500,642.09			NK-100
		IPC 13	1,120,635.81			NK-108
		IPC 14	2,695,985.00			NK-125
		IPC 15	1,087,161.00			NK-126
		Total	64,305,236.77		(64,305,236.77)	
		Amount of the Final payment	14,103,779.57			

[Handwritten signature]

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Bill of Quantities (Estimated on 7 February 2008)

JHELUM VALLAY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,693,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	

Handwritten signature/initials

1. GENERAL
1.1 Mobilization

Code	Item	Specification	Unit	Unit price (PKR)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
	Site Office	House rental for contractor	month	86,250.00	12.0	18.0	1,035,000.00	1,592,500.00	517,500.00	12+6month
	Furnishing of site office	For site office	L.S.	1,725,000.00	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For site office	month	230,000.00	12.0	18.0	2,760,000.00	4,140,000.00	1,380,000.00	12+6month
	The Engineer's Office	House rental for The Engineer	month	172,500.00	12.0	12.0	2,070,000.00	2,070,000.00	0.00	
	Furnishing of site office	For the Engineer's office	L.S.	1,725,000.00	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For the Engineer's office	month	246,428.90	12.0	12.0	2,957,146.80	2,957,146.80	0.00	
	The Engineer's Residence	House rental for The Engineer	month	100,000.00	12.0	18.0	1,200,000.00	1,800,000.00	600,000.00	12+6month
	Furnishing	For the Engineer's residence	L.S.	1,725,000.00	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For the Engineer's residence	month	115,000.00	12.0	18.0	1,380,000.00	2,070,000.00	690,000.00	12+6month
	Laboratory	Concrete, asphalt and soil test	Block	2,875,000.00	1.0	1.0	2,875,000.00	2,875,000.00	0.00	60 m2
	Operation and Maintenance		month	115,000.00	10.0	16.0	1,150,000.00	1,840,000.00	690,000.00	10+6month
	Testing equipment	Concrete, asphalt and soil test	L.S.	4,600,000.00	1.0	1.0	4,600,000.00	4,600,000.00	0.00	
	Tests	Concrete, asphalt and soil test	L.S.	575,000.00	1.0	1.0	575,000.00	575,000.00	0.00	
	Temporary yard	Land rental (50 x 200)	month	46,000.00	14.0	20.0	644,000.00	920,000.00	276,000.00	14+6month
	Temporary yard	Embankment of sub-base and concreting	m3	430.27	4,000.00	4,000.00	1,721,080.00	1,721,080.00	0.00	10,000*0.4
	PC girder casting yard	Land rental (50 x 30)	month	45,000.00	14.0	14.0	630,000.00	630,000.00	0.00	
	PC girder casting yard	Embankment of sub-base material	m3	430.27	600.00	600.00	258,163.50	258,163.50	0.00	1,500*0.4
	Concrete batching plant	Transportation and Installation	L.S.	460,000.00	1.0	1.0	460,000.00	460,000.00	0.00	
	Car	4WD	No.	5,998,000.00	3.0	3.0	17,994,000.00	17,994,000.00	0.00	
	Car	Sedan	No.	1,650,000.00	1.0	1.0	1,650,000.00	1,650,000.00	0.00	
	Operation and Maintenance	For cars	month	345,000.00	12.0	15.8	4,140,000.00	5,433,750.00	1,293,750.00	12+3months3/4+3months2/4nos
	Generator	200KVA	No.	920,000.00	1.0	1.0	920,000.00	920,000.00	0.00	
	Operation and Maintenance	For generators	month	57,500.00	12.0	18.0	690,000.00	1,035,000.00	345,000.00	12+6month
	TOTAL						54,884,400.30	60,676,650.30	5,792,250.00	

(Handwritten signature)

2. CONSTRUCTION COST

2.1 Bridge No.1

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference	Remarks
					Original	Final	Original	Final		
105	Damllition	Existing deck slab & parapet	m3	625.00	132.70	132.70	82,937.50	82,937.50	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	481.09	481.66	204,463.25	204,705.50	242.25	
107ciii	Structural excavation	Soft rock material	m3	437.50	3,118.63	3,118.63	1,364,400.62	1,364,400.62	0.00	
107civ	Structural excavation	Existing abutment	m3	555.00	341.28	341.28	189,410.40	189,410.40	0.00	
107d	Back fill	Granular material	m3	659.375	2,687.41	2,687.41	2,309,492.96	2,309,492.96	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	1,242.44	1,174.81	310,610.00	293,702.50	-16,907.50	
200	Stone base		m3	625.00	47.87	47.87	29,918.75	29,918.75	0.00	
201	Granular Sub-base		m3	1,000.00	52.21	27.57	52,210.00	27,570.00	-24,640.00	
202	Base course	Aggregate	m3	1,625.00	78.76	117.46	127,965.00	190,872.50	62,887.50	
202b	Asphaltic base course	Plant mix	m3	11,875.00	23.31	12.44	276,806.25	147,725.00	-129,081.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	707.02	1038.00	44,188.75	64,875.00	20,686.25	
303a	Tack coat	Cut-back Asphalt	m2	43.75	310.76	163.89	13,595.75	7,257.68	-6,338.07	
304c	Triple surface treatment	t = 21mm	m2	223.20	82.40	17.92	18,391.68	3,999.74	-14,391.94	
305b	Wearing course	Plant mix	m3	11,875.00	35.35	51.90	419,781.25	616,312.50	196,531.25	
401a1	Concrete for abutment and retaining wall	Class A1	m3	9,750.00	607.81	666.20	5,926,147.50	6,495,450.00	569,302.50	
401a1	Concrete for barrier & approach slab	Class A1	m3	9,750.00	41.96	43.95	409,110.00	428,512.50	19,402.50	
401a3	Concrete for super-structure	Class A3	m3	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m3	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m3	5,625.00	35.53	35.53	199,856.25	199,856.25	0.00	
404b	Reinforcement	AASHTO M31 Grade 60	ton	97,500.00	95.16	95.50	9,278,100.00	9,311,250.00	33,150.00	
405a	Prestressing wire strand	3/8" - 1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
406e	Bearing pad	Neoprene	cm3	3,125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
406h	Expansion joint	NB50	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Drain pipe	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	23.43	0.00	76,147.50	0.00	-76,147.50	
507c	Gabion		m3	1,437.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	255.00	255.00	24,862.50	24,862.50	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		134.06	0.00	58,651.25	58,651.25	
	Additional gabion		m3	1,437.50		228.31	0.00	328,195.62	328,195.62	
	Additional guard block concrete		m3	9,750.00		4.62	0.00	45,045.00	45,045.00	
	Additional painting		m2	555.00		105.08	0.00	57,794.00	57,794.00	Now rate proposed by SAMBU
	TOTAL	Adjustment of Original BOQ					26,836,892.92	27,961,287.77	1,124,394.85	
							-12.99	12.99		

2. CONSTRUCTION COST

2.2 Bridge No.2

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
106diii	Excavate surplus material	Soft rock	m3	425.00	33.23	33.23	14,122.75	14,122.75	0.00	
107eiii	Structural excavation	Soft rock material	m3	437.50	2,519.51	2,519.51	1,102,285.63	1,102,285.63	0.00	Including existing abutment
107d	Back fill	Granular material	m3	859.375	2,157.70	2,157.70	1,854,273.44	1,854,273.44	0.00	
108e	Formation of Embankment from borrow pit	Common material	m3	250.00	3,412.77	3,270.65	853,192.50	817,662.50	-35,530.00	
200	Stone base		m3	625.00	35.10	35.10	21,937.50	21,937.50	0.00	
201	Granular Sub-base		m3	1,000.00	67.74	41.29	67,740.00	41,290.00	-26,450.00	
202	Base course	Aggregate	m3	1,825.00	96.83	83.58	157,348.75	135,817.50	-21,531.25	
203a	Asphaltic base course	Plant mix	m3	11,875.00	30.41	16.61	361,118.75	197,243.75	-163,875.00	
209d	Scarification	Existing Pavement	m2	93.75	103.00	0.00	9,656.25	0.00	-9,656.25	
302a	Prime coat	Out-back Asphalt	m2	62.50	802.69	764.24	50,168.13	47,765.00	-2,403.13	
303a	Tack coat	Out-back Asphalt	m2	43.75	405.48	221.40	17,799.75	9,686.25	-8,053.50	
304c	Triple surface treatment	t = 21mm	m2	223.20	103.30	53.88	23,056.56	12,026.02	-11,030.54	
305a	Wearing course	Plant mix	m3	11,875.00	40.13	38.21	476,543.75	453,743.75	-22,800.00	
401a1	Concrete for abutment	Class A1	m3	9,750.00	519.48	577.88	5,084,930.00	5,634,330.00	569,400.00	
401a1	Concrete for barrier & approach slab	Class A1	m3	9,750.00	41.23	41.73	401,992.50	406,867.50	4,875.00	
401a3	Concrete for super-structure	Class A3	m3	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m3	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m3	5,825.00	25.91	25.91	145,743.75	145,743.75	0.00	
404a	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	86.97	86.97	8,479,575.00	8,479,575.00	0.00	
405a	Prestressing wire strand	3/8" - 1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
405c	Transport of girder		No.	187,500.00	4.00	4.00	750,000.00	750,000.00	0.00	
406e	Bearing pad	Neoprene	cm3	3,125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
406h	Expansion joint	NBS50	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Drain pipe	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	31.20	0.00	101,400.00	0.00	-101,400.00	
507a	Gabion	Non-reflective TP paint W=15cm	m3	1,437.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Pavement marking		m	97.50	270.00	270.00	26,325.00	26,325.00	0.00	
							0.00	0.00	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		385.70	0.00	168,743.75	168,743.75	
	Additional gabion		m3	1,437.50		581.59	0.00	836,035.63	836,035.63	
	Additional guard block concrete		m3	9,750.00		5.35	0.00	52,162.50	52,162.50	
	Additional pointing		m2	550.00		108.50	0.00	59,675.00	59,675.00	New rate proposed by SAMBU
							0.00	0.00	0.00	
	TOTAL						25,457,640.00	26,745,802.20	1,288,162.21	

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2. CONSTRUCTION COST

2.3.1 Bridge No.3

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m ³	825.00	24.00	24.00	15,000.00	15,000.00	0.00	
106diii	Excavate surplus material	Soft rock	m ³	425.00	2.88		1,224.00	0.00	-1,224.00	
107ei	Structural excavation	Hard rock material	m ³	975.00	50.00	50.00	48,750.00	48,750.00	0.00	
107eiii	Structural excavation	Soft rock material	m ³	437.50	1,821.00	1,608.30	786,887.50	703,631.25	-83,056.25	Including existing abutment
107d	Back fill	Granular material	m ³	859.88	1,587.00	1,672.45	1,383,828.13	1,437,261.72	73,433.59	
108e	Formation of Embankment from borrow pit	Common material	m ³	250.00	2,172.00		543,000.00	0.00	-543,000.00	
200	Stone base		m ³	825.00	96.16	96.64	60,100.00	36,650.00	-23,450.00	
201	Granular Sub-base		m ³	1,000.00	70.01		70,010.00	0.00	-70,010.00	
202	Base course	Aggregate	m ³	1,625.00	95.88		155,967.50	0.00	-155,967.50	
203b	Asphaltic base course	Plant mix	m ³	11,875.00	32.47		385,581.25	0.00	-385,581.25	
302a	Prime coat	Cut-back Asphalt	m ²	62.50	432.91		27,056.88	0.00	-27,056.88	
303a	Tack coat	Cut-back Asphalt	m ²	43.75	432.91		18,939.81	0.00	-18,939.81	
304c	Triple surface treatment	t = 21mm	m ²	223.20	173.40		38,702.88	0.00	-38,702.88	
305b	Wearing course	Plant mix	m ³	11,875.00	21.85		257,093.75	0.00	-257,093.75	
401a	Concrete	Class A1	m ³	9,750.00	1,095.25	829.44	10,678,687.50	8,087,040.00	-2,591,647.50	
401f	Lean concrete	Lean concrete	m ³	5,625.00	48.08	28.40	270,450.00	159,750.00	-110,700.00	
404a	Reinforcement	AASHTO M31 Grade 60	ton	97,500.00	101.10	87.89	9,857,250.00	8,568,275.00	-1,287,975.00	
406d	Water stop	6"	m	785.00	34.80	34.60	27,161.00	27,161.00	0.00	
411b	Stone masonry	With mortar	m ³	3,250.00	17.16		55,770.00	0.00	-55,770.00	
507a	Gabion	h=1.0m	m ³	1,437.50	61.50	250.00	88,406.25	359,375.00	270,968.75	
604a	Steel guard rail		m	15,000.00	96.25		1,443,750.00	0.00	-1,443,750.00	
608bii	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	69.80		6,766.00	0.00	-6,766.00	
	Sub-Total						26,210,202.44	19,443,893.97	-6,766,308.47	
	Temporary work	Protection of upstream slope by gabions	L.S.	250,000.00	1.0	1.0	250,000.00	250,000.00	0.00	
	TOTAL						26,460,202.44	19,693,893.97	-6,766,308.47	

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2. CONSTRUCTION COST

2.3.2 Site No. 3 (Slope Protection) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
101	Clearing and grubbing		m2	13.75			0.00	0.00		
106a	Excavation	Unsuitable common material	m3	250.00	35,195.00	6,745.00	8,798,750.00	1,686,250.00	-7,112,500.00	
106ci	Manual excavate	Surplus common material	m3	437.50	4,217.30		1,845,068.75	0.00	-1,845,068.75	
107cii	Structural excavation	Soft rock material	m3	437.50	238.62		104,386.25	0.00	-104,386.25	
107d	Back fill	Granular material	m3	859.38	59.45		51,090.14	0.00	-51,090.14	
201	Granular Sub-base		m3	1,000.00	50.50		50,500.00	0.00	-50,500.00	
202	Base course	Aggregate	m3	1,625.00	69.83		113,473.75	0.00	-113,473.75	
203b	Asphaltic base course	Plant mix	m3	11,875.00	23.37		277,518.75	0.00	-277,518.75	
209b	Scarification	Existing Pavement	m2	93.75	15.00		1,406.25	0.00	-1,406.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	311.56		19,472.50	0.00	-19,472.50	
303a	Tack coat	Cut-back Asphalt	m2	43.75	311.56		13,630.75	0.00	-13,630.75	
304c	Triple Surface Treatment	t = 21mm	m2	223.20	43.00		9,597.60	0.00	-9,597.60	
305b	Wearing course	Plant mix	m3	11,875.00	15.58		185,012.50	0.00	-185,012.50	
401a1	Concrete for retaining wall	Class A1	m3	9,750.00	451.04		4,397,640.00	0.00	-4,397,640.00	
401a4	Concrete crib work	Spray class A4 concrete	m3	12,740.00	0.00		0.00	0.00	0.00	
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00	12.30		69,187.50	0.00	-69,187.50	
404b	Reinforcement for concrete crib	AASHTO M.31 Grade 60	ton	97,500.00	0.00		0.00	0.00	0.00	
406f	Asphalt felt	3 ply	m2	4,375.00	11.00		48,125.00	0.00	-48,125.00	
411b	Stone masonry	With mortar	m3	3,250.00	50.90		165,425.00	0.00	-165,425.00	
600	Drain pipe for retaining wall	Polyethylene	m	437.50	82.00		35,875.00	0.00	-35,875.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	144.00		14,040.00	0.00	-14,040.00	
902	Rock bolt for concrete crib	D22 with boring & grouting	m	8,750.00	0.00		0.00	0.00	0.00	
904i	Mortar spray	100 mm thick	m2	2,000.00	1,032.34	989.27	2,064,680.00	1,978,540.00	-86,140.00	
904ii	Mortar spray	50 mm thick	m2	1,500.00	5,083.44		7,625,160.00	0.00	-7,625,160.00	
	Sub-TOTAL						25,890,049.74	3,664,790.00	-22,225,259.74	
	Additional concrete for cut surface	Class A1	m3	9,750.00		32.59	0.00	317,752.50	317,752.50	
	Sub-TOTAL						0.00	0.00	0.00	
	TOTAL						25,890,049.74	3,982,542.50	-21,907,507.24	

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2. CONSTRUCTION COST

2.3.3 Site No. 3 (Road Works) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
106a	Excavate	Unsuitable common material	m3	230.00			0.00	0.00	0.00	
106ci	Manual excavate	Surplus common material	m3	437.50		139.64	0.00	61,092.50	61,092.50	
107cii	Structural excavation	Soft rock material	m3	437.50		7.25	0.00	3,171.88	3,171.88	
107d	Back fill	Granular material	m3	859.38		2008.70	0.00	1,726,236.61	1,726,236.61	
	Back fill for Wet-masonry wall	Aggregate material	m3	1,812.00		78.36	0.00	141,988.32	141,988.32	
	Gabion (t=0.5m)		m3	2,468.80		162.67	0.00	401,599.70	401,599.70	
201	Granular Sub-base		m3	1,000.00		116.77	0.00	116,770.00	116,770.00	
202	Base course	Aggregate	m3	1,625.00		132.84	0.00	215,865.00	215,865.00	
203b	Asphaltic base course	Plant mix	m3	11,875.00		55.96	0.00	664,525.00	664,525.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50		853.52	0.00	53,345.00	53,345.00	
303a	Tack coat	Cut-back Asphalt	m2	43.75		746.10	0.00	32,641.88	32,641.88	
305b	Wearing course	Plant mix	m3	11,875.00		42.68	0.00	506,825.00	506,825.00	
401a1	Concrete for retaining wall and other	Class A1	m3	9,750.00		210.75	0.00	2,054,812.50	2,054,812.50	
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00		8.70	0.00	48,937.50	48,937.50	
406f	Asphalt felt	3 ply	m2	4,375.00		0.00	0.00	0.00	0.00	
	Drain pipe for wet-masonry wall	dia 45mm, l=600mm	m	150.00		9.00	0.00	1,350.00	1,350.00	
411b	Stone masonry for side ditch	With mortar	m3	3,250.00		20.94	0.00	68,055.00	68,055.00	
	Wet-masonry (t=50)	with concrete	m3	4,000.00		24.97	0.00	99,880.00	99,880.00	
	Traffic road sign		nos.	12,646.80		2.00	0.00	25,293.60	25,293.60	
806b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50		196.20	0.00	19,129.50	19,129.50	
	Reinforcement		ton	97500.00		0.5	0	48750	48750	
	Additional painting		m2	550.00		35.28	0.00	19404	19404	
	TOTAL						0.00	6,309,672.97	6,309,672.97	

2. CONSTRUCTION COST

2.3.4 Site No. 3 (Log Chute) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
	Log Chute									
	Additional structural excavation	Soft rock material	m3	437.50		446.64	0.00	195,405.00	195,405.00	
	Additional back fill	Granular material	m3	859.38		295.50		253,946.79	253,946.79	
	Additional back fill	Common soil	m3	250.00		587.70		146,925.00	146,925.00	
	Additional stone base		m3	625.00		34.92	0.00	21,825.00	21,825.00	
	Additional lean concrete	Lean concrete	m3	5,625.00		17.46	0.00	98,212.50	98,212.50	
	Additional concrete	Class A1	m3	9,750.00		337.64	0.00	3,291,990.00	3,291,990.00	
	Additional reinforcement	AAASHTO M.31 Grade 60	ton	97,500.00		34.93	0.00	3,405,675.00	3,405,675.00	
	Additional gabion	h=0.5m	m3	1437.50			0.00	0.00	0.00	
	Additional gabion base concrete	Lean concrete	m3	5625.00		28.53	0.00	160,481.25	160,481.25	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
	TOTAL						0.00	7,574,460.54	7,574,460.54	

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2. CONSTRUCTION COST

2.4 Culvert No.4

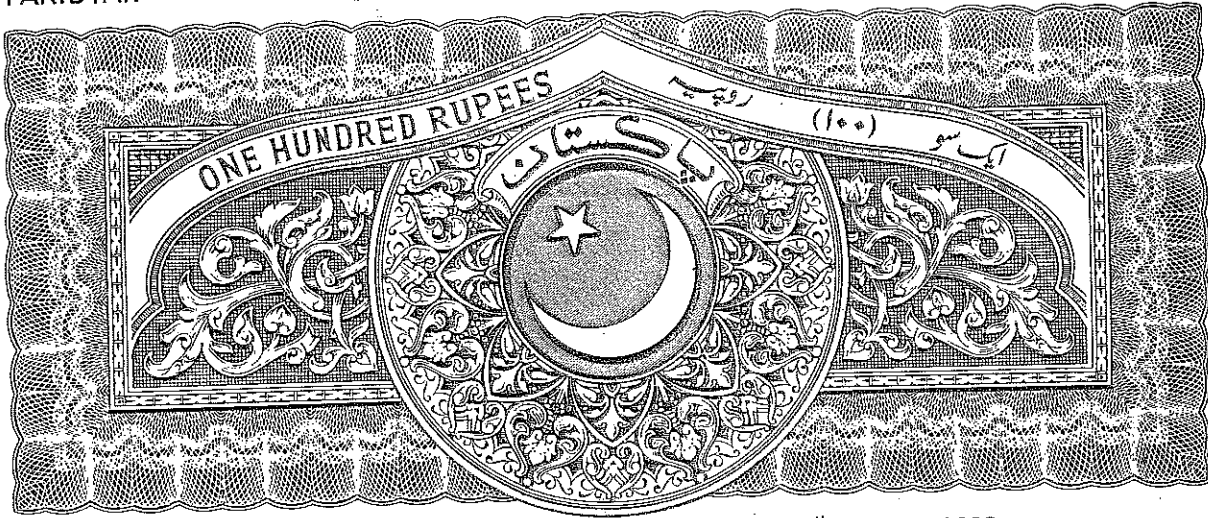
Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	14.40	14.40	9,000.00	9,000.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	163.86	43.71	69,640.50	18,576.75	-51,063.75	
107eiii	Structural excavation	Soft rock material	m3	437.50	415.10	415.10	181,606.25	181,606.25	0.00	including existing abutment
107d	Back fill	Granular material	m3	859.33	1,182.00	1,182.00	1,015,781.25	1,015,781.25	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	601.43	560.61	150,357.50	140,152.50	-10,205.00	
200	Stone base		m3	625.00	31.71	31.71	19,818.75	19,818.75	0.00	
201	Granular Subbase		m3	1,000.00	65.03	55.35	65,030.00	55,350.00	-9,680.00	
202	Base course	Aggregate	m3	1,625.00	71.33	62.85	115,911.25	102,131.25	-13,780.00	
203b	Asphaltic base course	Plant mix	m3	11,875.00	27.08	16.43	321,575.00	195,106.25	-126,468.75	
209d	Scarification	Existing Pavement	m2	93.75	209.00	209.00	19,593.75	19,593.75	0.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50	361.01	219.00	22,563.13	13,687.50	-8,875.63	
303a	Tack coat	Cut-back Asphalt	m2	43.75	361.01	219.00	15,794.19	9,581.25	-6,212.94	
304c	Triple surface treatment	t = 21mm	m2	223.20	96.20	150.00	21,471.84	33,480.00	12,008.16	
305a	Wearing course	Plant mix	m3	11,875.00	18.05	10.95	214,343.75	130,031.25	-84,312.50	
401a	Concrete	Class A1	m3	9,750.00	205.05	204.35	1,999,237.50	1,992,412.50	-6,825.00	
401f	Lean concrete	Lean concrete	m3	5,625.00	15.86	15.86	89,212.50	89,212.50	0.00	
404h	Reinforcement	AA-SHTO M:31 Grade 60	ton	97,500.00	22.20	22.20	2,164,500.00	2,164,500.00	0.00	
406d	Water stop	6"	m	785.00	17.00	17.00	13,345.00	13,345.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	5.20	0.00	16,900.00	0.00	-16,900.00	
604a	Steel guard rail		m	15,000.00	41.25	37.33	618,750.00	559,950.00	-58,800.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	90.00	90.00	8,775.00	8,775.00	0.00	
	Additional structural excavation		m3	437.50	0.00	0.00	0.00	0.00	0.00	
	Additional gabion		m3	1,437.50	0.00	18.50	0.00	26,593.75	26,593.75	
	Additional kerb stone		m3	97,500.00		0.0	0.00	0.00	0.00	
	Additional painting for railing		m	774.00		37.33	0.00	28,893.42	28,893.42	New rate proposed by SAMBU
	Additional stone masonry		m3	3,250.00		7.86	0.00	25,545.00	25,545.00	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
							7,153,207.15	6,853,123.92	-300,083.23	
	TOTAL									

2. CONSTRUCTION COST

2.5 Bridge No.5

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Difference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	235.60	235.60	147,250.00	147,250.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	164.24	150.68	69,802.00	64,039.00	-5,763.00	
107ciii	Structural excavation	Soft rock material	m3	437.50	1,104.50	1,104.00	483,218.75	483,000.00	-218.75	Including existing abutment
107d	Back fill	Granular material	m3	859.38	985.40	985.40	846,828.13	846,828.13	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	941.82	941.82	246,272.50	235,455.00	-10,817.50	
200	Stone base		m3	625.00	72.65	72.65	45,406.25	45,406.25	0.00	
201	Granular Sub-base		m3	1,000.00	84.55	85.93	84,550.00	85,930.00	1,380.00	
202	Base course	Aggregate	m3	1,625.00	92.43	122.35	150,198.75	198,618.75	48,420.00	
203a	Asphaltic base course	Plant mix	m3	11,875.00	35.48	28.31	421,325.00	336,181.25	-85,143.75	
209d	Scarification	Existing Pavement	m2	98.75	74.58	74.58	6,991.88	6,991.88	0.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50	473.00	555.06	29,562.50	34,891.25	5,128.75	
303a	Tack coat	Cut-back Asphalt	m2	43.75	473.00	377.41	20,693.75	16,511.69	-4,182.06	
304c	Triple surface treatment	t = 21mm	m2	223.20	120.00	195.46	26,784.00	43,626.67	16,842.67	
305a	Wearing course	Plant mix	m3	11,875.00	23.65	27.75	280,843.75	329,531.25	48,687.50	
401a	Concrete	Class A1	m3	9,750.00	393.50	399.25	3,836,625.00	3,892,687.50	56,062.50	
401f	Lean concrete	Lean concrete	m3	5,625.00	33.76	33.76	189,900.00	189,900.00	0.00	
404h	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	34.95	34.95	3,407,625.00	3,407,625.00	0.00	
406d	Water stop	6"	m	785.00	32.80	32.80	25,748.00	25,748.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	2.60	3.99	8,450.00	12,967.50	4,517.50	
507a	Gabion		m3	1,437.50	32.98	32.98	47,408.75	47,408.75	0.00	
604a	Steel guard rail		m	15,000.00	68.75	69.90	1,031,250.00	1,048,500.00	17,250.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	150.00	150.00	14,625.00	14,625.00	0.00	
	Additional structural excavation									
	Additional gabion	Soft rock material	m3	437.50	26.00	26.00	0.00	11,375.00	11,375.00	
	Additional painting		m2	774.00	52.40	52.40	0.00	75,325.00	75,325.00	
	Additional kerb stone		m3	9,750.00	69.90	69.90	0.00	54,102.60	54,102.60	New rate proposed by SAMBU
	Adjustment of BOQ				0.0	0.0	-0.01	0.00	0.00	
	TOTAL						11,421,358.99	11,654,525.46	233,166.47	

Handwritten signature/initials



Issue Date : 19th February 2008
 Guarantee No.: G/331/08/0012
 Amount (PKR): 8,764,054/-
 Expiry date : 20th February 2009

NIPPON KOEI CO. LTD
B-47, UPPER CHATTER HOUSING
MUZAFFARABAD, AJK
PAKISTAN.

BANK GUARANTEE FOR RETENTION MONEY GUARANTEE

WHEREAS Nippon Koei Co. Ltd (hereinafter called the Client) has entered into a Contract for 'Reconstruction of Bridges Damaged by October 08 Earthquake on Jhelum, Valley Road" (hereinafter called the Project) with SAMBU Construction Co Ltd. (hereinafter called the Contractor)

AND WHEREAS, the Client has agreed to accept Retention Money from the Contractor, at the Contractor request, in the form and shape of a Bank Guarantee of an equivalent amount.

AND WHEREAS, ABN AMRO Bank (Pakistan) Limited (Formerly Prime Commercial Bank Limited). 310 Upper Mall Lahore Pakistan (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Client agreeing to accept the above Bank Guarantee against Retention Money from the Contractor, has agreed to furnish the said Guarantee.

Now therefore, the Guarantor hereby guarantee that the Contractor shall use the Retention Money for the purpose of the above mentioned Contract and if the Contractor falls and commits default in fulfillment of any of his obligations, for which the Retention Money is made, the Guarantor shall be liable to the Client for payment not exceeding the amount of PKR. 8,764,054/- (Pak Rupees, Eight Million Seven Hundred Sixty Four Thousand and Fifty Four Only)

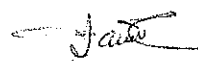
Notice in writing, incase of any default on the part of the Contractor of which the Client shall be the sole and final judge, shall be given by the Client for payment not exceeding the aforesaid amount and on such first written demand, payment shall be made forthwith by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection whatsoever.

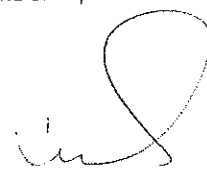
This guarantee shall remain in force until the Satisfactory Completion of the Defects liability Period of the afore-mentioned Project or until 20th February 2009 whichever is earlier.

Our maximum liability under this guarantee is limited to the sum of PKR. 8,764,054/- in words (Pak Rupees, Eight Million Seven Hundred Sixty Four Thousand and Fifty Four Only) and claim if any in writing must be lodged with the ABN AMRO Bank (Pakistan) Limited, formerly Prime Commercial Bank Ltd, having its registered office at 310, Upper Mall Road, Lahore Pakistan, on or before 20th February 2009. If any claim which should have been made under this guarantee is not made and received by us in the manner and within the time stipulated, such omission will release and discharge us from all liabilities, if any, under this guarantee, which guarantee on the expiry of the said period shall stand cancelled and void whether or not the said guarantee is returned to us.

Witnesses:

1. 
 2. 

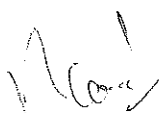




for & behalf of
 ABN AMRO Bank (Pakistan) Limited,
 Formerly Prime Commercial Bank Ltd

SAEEDA AKHTAR
 Corporate Director
 Regional Head Operations (Central)
 ABN AMRO Bank (Pakistan) Ltd
 310-UPPER MALL LAHORE.

SHAHID ABEAS
 AVP GSS, CFA, Ops.
ABN AMRO Bank (Pakistan) Ltd.
310-UPPER MALL LAHORE.
 Ph. 5751000 Ext. 2410 Fax: 5751020



مقررہ جہتی اسٹامپ فروش 77۔ بی سٹریٹ نمبر 3 فردین پارک شاد باغ لاہور

تاریخ 19-02-08 نمبر 1234 اسٹامپ کی

20 FICOR ABN Assis Bank Pakistan

NIPPON KOEI Co. LTD. Co GUARANTEE

M. Saha

دعوت اسٹامپ فروش

APPENDIX - B

B-5: Bill of Quantities (Final)

Bill of Quantities

Original and Final

JHELUM VALLAY ROAD AJK (JICA Portion)

S.NO.	Description	AMOUNT(PKR)			Balance (3)-(2) (PKR)	Remarks
		Original (1)	Final (2)	Paid in FY2006 (3)		
1	Mobilization	54,884,400.30	60,676,650.30	54,884,400.30	5,792,250.00	
2	Demobilization	3,963,475.00	3,963,475.00		3,963,475.00	
3	Bridge No. 1	26,836,892.92	27,961,287.77	14,897,178.00	13,064,109.77	
4	Bridge No. 2	25,457,640.00	26,745,802.20	13,105,152.00	13,640,650.20	
5	Bridge No. 3 Bridge	26,460,202.44	19,693,893.97	5,088,233.00	14,605,660.97	
6	Bridge No. 3 Slope Protection	25,890,049.74	3,982,542.50	3,750,000.00	232,542.50	
7	Bridge No. 3 Road Works		6,309,672.97		6,309,672.97	
8	Bridge No. 3 Log Chute		7,574,460.54		7,574,460.54	
	No.3 Bridge total	52,350,252.18	37,560,569.98	8,838,233.00	28,722,336.98	
9	Culvert No. 4	7,153,207.15	6,853,123.92	1,067,511.00	5,785,612.92	
10	Bridge No. 5	11,421,358.99	11,654,525.46	4,213,944.00	7,440,581.46	
	Total	182,067,226.54	175,415,434.64	97,006,418.30	78,409,016.34	

Amount paid under Interim Payments in FY2007	Advance	9,723,581.00		Mob.adv./ JICA/058
	IPC 6	5,123,008.67		NK-065
	IPC 7	8,400,056.34		NK-069
	IPC 8	9,834,024.84		NK-070
	IPC 9	7,300,597.87		NK-077&076
	IPC 10	5,144,595.15		NK-095, Aug.31, 2007
	IPC 11	8,374,949.00		NK-095, Oct 9, 2007
	IPC 12	5,500,642.09		NK-100
	IPC 13	1,120,635.81		NK-108
	IPC 14	2,695,985.00		NK-125
	IPC 15	1,087,161.00		NK-126
		Total	64,305,236.77	(64,305,236.77)
	Amount of the Final payment		14,103,779.57	

1. GENERAL

1.1 Mobilization

Code	Item	Specification	Unit	Unit price (PKR)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
	Site Office	House rental for contractor	month	86,250.00	12.0	18.0	1,035,000.00	1,552,500.00	517,500.00	12+6month
	Furnishing of site office	For site office	L.S.	1,725,000.0	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For site office	month	230,000.00	12.0	18.0	2,760,000.00	4,140,000.00	1,380,000.00	12+6month
	The Engineer's Office	House rental for The Engineer	month	172,500.00	12.0	12.0	2,070,000.00	2,070,000.00	0.00	
	Furnishing of site office	For the Engineer's office	L.S.	1,725,000.0	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For the Engineer's office	month	246,428.90	12.0	12.0	2,957,146.80	2,957,146.80	0.00	
	The Engineer's Residence	House rental for The Engineer	month	100,000.00	12.0	18.0	1,200,000.00	1,800,000.00	600,000.00	12+6month
	Furnishing	For the Engineer's residence	L.S.	1,725,000.0	1.0	1.0	1,725,000.00	1,725,000.00	0.00	
	Operation and Maintenance	For the Engineer's residence	month	115,000.00	12.0	18.0	1,380,000.00	2,070,000.00	690,000.00	12+6month
	Laboratory	Concrete, asphalt and soil test	Block	2,875,000.0	1.0	1.0	2,875,000.00	2,875,000.00	0.00	60 m2
	Operation and Maintenance		month	115,000.00	10.0	16.0	1,150,000.00	1,840,000.00	690,000.00	10+6month
	Testing equipment	Concrete, asphalt and soil test	L.S.	4,600,000.0	1.0	1.0	4,600,000.00	4,600,000.00	0.00	
	Tests	Concrete, asphalt and soil test	L.S.	575,000.0	1.0	1.0	575,000.00	575,000.00	0.00	
	Temporary yard	Land rental (50 x 200)	month	46,000.00	14.0	20.0	644,000.00	920,000.00	276,000.00	14+6month
	Temporary yard	Embankment of sub-base and concreting	m3	430.27	4,000.00	4,000.00	1,721,090.00	1,721,090.00	0.00	10,000*0.4
	PC girder casting yard	Land rental (50 x 30)	month	45,000	14.0	14.0	630,000.00	630,000.00	0.00	
	PC girder casting yard	Embankment of sub-base material	m3	430.27	600.00	600.00	258,163.50	258,163.50	0.00	1,500*0.4
	Concrete batching plant	Transportation and Installation	L.S.	460,000.0	1.0	1.0	460,000.00	460,000.00	0.00	
	Car	4WD	No.	5,998,000.0	3.0	3.0	17,994,000.00	17,994,000.00	0.00	
	Car	Sedan	No.	1,650,000.00	1.0	1.0	1,650,000.00	1,650,000.00	0.00	
	Operation and Maintenance	For cars	month	345,000.00	12.0	15.8	4,140,000.00	5,433,750.00	1,293,750.00	12+3monthx3/4+3monthx2/4nos
	Generator	200KVA	No.	920,000.00	1.0	1.0	920,000.00	920,000.00	0.00	
	Operation and Maintenance	For generators	month	57,500.00	12.0	18.0	690,000.00	1,035,000.00	345,000.00	12+6month
	TOTAL						54,884,400.30	60,676,650.30	5,792,250.00	

2. CONSTRUCTION COST

2.1 Bridge No.1

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	132.70	132.70	82,937.50	82,937.50	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	481.09	481.66	204,463.25	204,705.50	242.25	
107ciii	Structural excavation	Soft rock material	m3	437.50	3,118.63	3,118.63	1,364,400.62	1,364,400.62	0.00	
107civ	Structural excavation	Existing abutment	m3	555.00	341.28	341.28	189,410.40	189,410.40	0.00	
107d	Back fill	Granular material	m3	859.375	2,687.41	2,687.41	2,309,492.96	2,309,492.96	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	1,242.44	1,174.81	310,610.00	293,702.50	-16,907.50	
200	Stone base		m3	625.00	47.87	47.87	29,918.75	29,918.75	0.00	
201	Granular Sub-base		m3	1,000.00	52.21	27.57	52,210.00	27,570.00	-24,640.00	
202	Base course	Aggregate	m3	1,625.00	78.76	117.46	127,985.00	190,872.50	62,887.50	
203b	Asphaltic base course	Plant mix	m3	11,875.00	23.31	12.44	276,806.25	147,725.00	-129,081.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	707.02	1038.00	44,188.75	64,875.00	20,686.25	
303a	Tack coat	Cut-back Asphalt	m2	43.75	310.76	165.89	13,595.75	7,257.68	-6,338.07	
304c	Triple surface treatment	t = 21mm	m2	223.20	82.40	17.92	18,391.68	3,999.74	-14,391.94	
305b	Wearing course	Plant mix	m3	11,875.00	35.35	51.90	419,781.25	616,312.50	196,531.25	
401a1	Concrete for abutment and retaining wall	Class A1	m3	9,750.00	607.81	666.20	5,926,147.50	6,495,450.00	569,302.50	
401a1	Concrete for barrier & approach slab	Class A1	m3	9,750.00	41.96	43.95	409,110.00	428,512.50	19,402.50	
401a3	Concrete for super-structure	Class A3	m3	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m3	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m3	5,625.00	35.53	35.53	199,856.25	199,856.25	0.00	
404b	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	95.16	95.50	9,278,100.00	9,311,250.00	33,150.00	
405a	Prestressing wire strand	3/8"-1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
406e	Bearing pad	Neoprene	cm3	3,125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
406h	Expansion joint	NB50	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Drain pipe	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	23.43	0.00	76,147.50	0.00	-76,147.50	
507c	Gabion		m3	1,437.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	255.00	255.00	24,862.50	24,862.50	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		134.06	0.00	58,651.25	58,651.25	
	Additional gabion		m3	1,437.50		228.31	0.00	328,195.62	328,195.62	
	Additional guard block concrete		m3	9,750.00		4.62	0.00	45,045.00	45,045.00	
	Additional painting		m2	550.00		105.08	0.00	57,794.00	57,794.00	New rate, 查定済。
		Adjustment of Original BOQ					-12.99		12.99	
	TOTAL						26,836,892.92	27,961,287.77	1,124,394.85	

2. CONSTRUCTION COST

2.2 Bridge No.2

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
106diii	Excavate surplus material	Soft rock	m3	425.00	33.23	33.23	14,122.75	14,122.75	0.00	
107ciii	Structural excavation	Soft rock material	m3	437.50	2,519.51	2,519.51	1,102,285.63	1,102,285.63	0.00	Including existing abutment
107d	Back fill	Granular material	m3	859.375	2,157.70	2,157.70	1,854,273.44	1,854,273.44	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	3,412.77	3,270.65	853,192.50	817,662.50	-35,530.00	
200	Stone base		m3	625.00	35.10	35.10	21,937.50	21,937.50	0.00	
201	Granular Sub-base		m3	1,000.00	67.74	41.29	67,740.00	41,290.00	-26,450.00	
202	Base course	Aggregate	m3	1,625.00	96.83	83.58	157,348.75	135,817.50	-21,531.25	
203a	Asphaltic base course	Plant mix	m3	11,875.00	30.41	16.61	361,118.75	197,243.75	-163,875.00	
209d	Scarification	Existing Pavement	m2	93.75	103.00	0.00	9,656.25	0.00	-9,656.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	802.69	764.24	50,168.13	47,765.00	-2,403.13	
303a	Tack coat	Cut-back Asphalt	m2	43.75	405.48	221.40	17,739.75	9,686.25	-8,053.50	
304c	Triple surface treatment	t = 21mm	m2	223.20	103.30	53.88	23,056.56	12,026.02	-11,030.54	
305a	Wearing course	Plant mix	m3	11,875.00	40.13	38.21	476,543.75	453,743.75	-22,800.00	
401a1	Concrete for abutment	Class A1	m3	9,750.00	519.48	577.88	5,064,930.00	5,634,330.00	569,400.00	
401a1	Concrete for barrier & approach slab	Class A1	m3	9,750.00	41.23	41.73	401,992.50	406,867.50	4,875.00	
401a3	Concrete for super-structure	Class A3	m3	9,750.00	92.61	92.61	902,947.50	902,947.50	0.00	
401d	Concrete for PC girder	Class D1	m3	13,000.00	104.46	104.46	1,357,980.00	1,357,980.00	0.00	
401f	Lean concrete for abutment	Lean concrete	m3	5,625.00	25.91	25.91	145,743.75	145,743.75	0.00	
404a	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	86.97	86.97	8,479,575.00	8,479,575.00	0.00	
405a	Prestressing wire strand	3/8"-1/2" dia complete in all aspect	ton	231,250.00	4.19	4.19	968,937.50	968,937.50	0.00	
405b	Launching of girder		No.	250,000.00	4.00	4.00	1,000,000.00	1,000,000.00	0.00	
405c	Transport of girder		No.	187,500.00	4.00	4.00	750,000.00	750,000.00	0.00	
406e	Bearing pad	Neoprene	cm3	3.125	112,000.00	112,000.00	350,000.00	350,000.00	0.00	
406h	Expansion joint	NB50	m	37,500.00	19.40	19.40	727,500.00	727,500.00	0.00	
408	Drain pipe	Polyethylene	No.	437.50	10.00	10.00	4,375.00	4,375.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	31.20	0.00	101,400.00	0.00	-101,400.00	
507a	Gabion		m3	1,437.50	116.00	116.00	166,750.00	166,750.00	0.00	
608b	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	270.00	270.00	26,325.00	26,325.00	0.00	
							0.00	0.00	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		385.70	0.00	168,743.75	168,743.75	
	Additional gabion		m3	1,437.50		581.59	0.00	836,035.63	836,035.63	
	Additional guard block concrete		m3	9,750.00		5.35	0.00	52,162.50	52,162.50	
	Additional painting		m2	550.00		108.50	0.00	59,675.00	59,675.00	New rate. 查定済。
							0.00	0.00	0.00	
	TOTAL						25,457,640.00	26,745,802.20	1,288,162.21	

2. CONSTRUCTION COST

2.3.1 Bridge No.3

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	24.00	24.00	15,000.00	15,000.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	2.88		1,224.00	0.00	-1,224.00	
107ci	Structural excavation	Hard rock material	m3	975.00	50.00	50.00	48,750.00	48,750.00	0.00	
107ciii	Structural excavation	Soft rock material	m3	437.50	1,821.00	1,608.30	796,687.50	703,631.25	-93,056.25	Including existing abutment
107d	Back fill	Granular material	m3	859.38	1,587.00	1,672.45	1,363,828.13	1,437,261.72	73,433.59	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	2,172.00		543,000.00	0.00	-543,000.00	
200	Stone base		m3	625.00	96.16	58.64	60,100.00	36,650.00	-23,450.00	
201	Granular Sub-base		m3	1,000.00	70.01		70,010.00	0.00	-70,010.00	
202	Base course	Aggregate	m3	1,625.00	95.98		155,967.50	0.00	-155,967.50	
203b	Asphaltic base course	Plant mix	m3	11,875.00	32.47		385,581.25	0.00	-385,581.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	432.91		27,056.88	0.00	-27,056.88	
303a	Tack coat	Cut-back Asphalt	m2	43.75	432.91		18,939.81	0.00	-18,939.81	
304c	Triple surface treatment	t = 21mm	m2	223.20	173.40		38,702.88	0.00	-38,702.88	
305b	Wearing course	Plant mix	m3	11,875.00	21.65		257,093.75	0.00	-257,093.75	
401a	Concrete	Class A1	m3	9,750.00	1,095.25	829.44	10,678,687.50	8,087,040.00	-2,591,647.50	
401f	Lean concrete	Lean concrete	m3	5,625.00	48.08	28.40	270,450.00	159,750.00	-110,700.00	
404a	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	101.10	87.89	9,857,250.00	8,569,275.00	-1,287,975.00	
406d	Water stop	6"	m	785.00	34.60	34.60	27,161.00	27,161.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	17.16		55,770.00	0.00	-55,770.00	
507a	Gabion	h=1.0m	m3	1,437.50	61.50	250.00	88,406.25	359,375.00	270,968.75	
604a	Steel guard rail		m	15,000.00	96.25		1,443,750.00	0.00	-1,443,750.00	
608bii	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	69.60		6,786.00	0.00	-6,786.00	
	Sub-Total						26,210,202.44	19,443,893.97	-6,766,308.47	
	Temporary work	Protection of upstream slope by gabions	L.S.	250,000.00	1.0	1.0	250,000.00	250,000.00	0.00	
	TOTAL						26,460,202.44	19,693,893.97	-6,766,308.47	

2. CONSTRUCTION COST

2.3.2 Site No. 3 (Slope Protection) : Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
101	Clearing and grubbing		m2	13.75			0.00	0.00	0.00	
106a	Excavation	Unsuitable common material	m3	250.00	35,195.00	6,745.00	8,798,750.00	1,686,250.00	-7,112,500.00	
106ci	Manual excavate	Surplus common material	m3	437.50	4,217.30		1,845,068.75	0.00	-1,845,068.75	
107cii	Structural excavation	Soft rock material	m3	437.50	238.62		104,396.25	0.00	-104,396.25	
107d	Back fill	Granular material	m3	859.38	59.45		51,090.14	0.00	-51,090.14	
201	Granular Sub-base		m3	1,000.00	50.50		50,500.00	0.00	-50,500.00	
202	Base course	Aggregate	m3	1,625.00	69.83		113,473.75	0.00	-113,473.75	
203b	Asphaltic base course	Plant mix	m3	11,875.00	23.37		277,518.75	0.00	-277,518.75	
209b	Scarification	Existing Pavement	m2	93.75	15.00		1,406.25	0.00	-1,406.25	
302a	Prime coat	Cut-back Asphalt	m2	62.50	311.56		19,472.50	0.00	-19,472.50	
303a	Tack coat	Cut-back Asphalt	m2	43.75	311.56		13,630.75	0.00	-13,630.75	
304c	Triple Surface Treatment	t = 21mm	m2	223.20	43.00		9,597.60	0.00	-9,597.60	
305b	Wearing course	Plant mix	m3	11,875.00	15.58		185,012.50	0.00	-185,012.50	
401a1	Concrete for retaining wall	Class A1	m3	9,750.00	451.04		4,397,640.00	0.00	-4,397,640.00	
401a4	Concrete crib work	Spray class A4 concrete	m3	12,740.00	0.00		0.00	0.00	0.00	
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00	12.30		69,187.50	0.00	-69,187.50	
404b	Reinforcement for concrete crib	AASHTO M.31 Grade 60	ton	97,500.00	0.00		0.00	0.00	0.00	
406f	Asphalt felt	3 ply	m2	4,375.00	11.00		48,125.00	0.00	-48,125.00	
411b	Stone masonry	With mortar	m3	3,250.00	50.90		165,425.00	0.00	-165,425.00	
600	Drain pipe for retaining wall	Polyethylene	m	437.50	82.00		35,875.00	0.00	-35,875.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	144.00		14,040.00	0.00	-14,040.00	
902	Rock bolt for concrete crib	D22 with boring & grouting	m	8,750.00	0.00		0.00	0.00	0.00	
904i	Mortar spray	100 mm thick	m2	2,000.00	1,032.34	989.27	2,064,680.00	1,978,540.00	-86,140.00	
904ii	Mortar spray	50 mm thick	m2	1,500.00	5,083.44		7,625,160.00	0.00	-7,625,160.00	
	Sub-TOTAL						25,890,049.74	3,664,790.00	-22,225,259.74	
	Additional concrete for cut surface	Class A1	m3	9,750.00		32.59	0.00	317,752.50	317,752.50	
							0.00	0.00	0.00	
	Sub-TOTAL						0.00	317,752.50	317,752.50	
	TOTAL						25,890,049.74	3,982,542.50	-21,907,507.24	

2. CONSTRUCTION COST

2.3.3 Site No. 3 (Road Works)

: Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
106a	Excavate	Unsuitable common material	m3	250.00			0.00	0.00	0.00	
106ci	Manual excavate	Surplus common material	m3	437.50		139.64	0.00	61,092.50	61,092.50	
107cii	Structural excavation	Soft rock material	m3	437.50		7.25	0.00	3,171.88	3,171.88	
107d	Back fill	Granular material	m3	859.38		2008.70	0.00	1,726,236.61	1,726,236.61	
	Back fill for Wet-masonry wall	Aggregate material	m3	1,812.00		78.36	0.00	141,988.32	141,988.32	New rate、査定済。
	Gabion (t=0.5m)		m3	2,468.80		162.67	0.00	401,599.70	401,599.70	New rate、査定済。
201	Granular Sub-base		m3	1,000.00		116.77	0.00	116,770.00	116,770.00	
202	Base course	Aggregate	m3	1,625.00		132.84	0.00	215,865.00	215,865.00	
203b	Asphaltic base course	Plant mix	m3	11,875.00		55.96	0.00	664,525.00	664,525.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50		853.52	0.00	53,345.00	53,345.00	
303a	Tack coat	Cut-back Asphalt	m2	43.75		746.10	0.00	32,641.88	32,641.88	
305b	Wearing course	Plant mix	m3	11,875.00		42.68	0.00	506,825.00	506,825.00	
401a1	Concrete for retaining wall and other	Class A1	m3	9,750.00		210.75	0.00	2,054,812.50	2,054,812.50	
401f	Lean concrete for retaining wall	Lean concrete	m3	5,625.00		8.70	0.00	48,937.50	48,937.50	
406f	Asphalt felt	3 ply	m2	4,375.00		0.00	0.00	0.00	0.00	
	Drain pipe for wet-masonry wall	dia 45mm, l=600mm	m	150.00		9.00	0.00	1,350.00	1,350.00	小額なため提案をそのまま受け入れ。
411b	Stone masonry for side ditch	With mortar	m3	3,250.00		20.94	0.00	68,055.00	68,055.00	
	Wet-masonry (t=50)	with concrete	m3	4,000.00		24.97	0.00	99,880.00	99,880.00	New rate、査定済。
	Traffic road sign		nos.	12,646.80		2.00	0.00	25,293.60	25,293.60	New rate、2基、小額のため提案をそのまま受入る。
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50		196.20	0.00	19,129.50	19,129.50	
	Reinforcement		ton	97500.00		0.5	0	48750	48750	
	Additional painting		m2	550.00		35.28		19404		
	TOTAL						0.00	6,309,672.97	6,290,268.97	

2. CONSTRUCTION COST

2.3.4 Site No. 3 (Log Chute)

: Contract No. 1 (JICA Portion)

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
	Log Chute									
	Additional structural excavation	Soft rock material	m3	437.50		446.64	0.00	195,405.00	195,405.00	
	Additional back fill	Granular material	m3	859.38		295.50		253,946.79	253,946.79	
	Additional back fill	Common soil	m3	250.00		587.70		146,925.00	146,925.00	
	Additional stone base		m3	625.00		34.92	0.00	21,825.00	21,825.00	
	Additional lean concrete	Lean concrete	m3	5,625.00		17.46	0.00	98,212.50	98,212.50	
	Additional concrete	Class A1	m3	9,750.00		337.64	0.00	3,291,990.00	3,291,990.00	
	Additional reinforcement	AASHTO M.31 Grade 60	ton	97,500.00		34.93	0.00	3,405,675.00	3,405,675.00	
	Additional gabion	h=0.5m	m3	1437.50			0.00	0.00	0.00	
	Additional gabion base concrete	Lean concrete	m3	5625.00		28.53	0.00	160,481.25	160,481.25	
							0.00	0.00	0.00	
	TOTAL						0.00	7,574,460.54	7,574,460.54	

2. CONSTRUCTION COST

2.4 Culvert No.4

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	14.40	14.40	9,000.00	9,000.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	163.86	43.71	69,640.50	18,576.75	-51,063.75	
107ciii	Structural excavation	Soft rock material	m3	437.50	415.10	415.10	181,606.25	181,606.25	0.00	Including existing abutment
107d	Back fill	Granular material	m3	859.38	1,182.00	1,182.00	1,015,781.25	1,015,781.25	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	601.43	560.61	150,357.50	140,152.50	-10,205.00	
200	Stone base		m3	625.00	31.71	31.71	19,818.75	19,818.75	0.00	
201	Granular Subbase		m3	1,000.00	65.03	55.35	65,030.00	55,350.00	-9,680.00	
202	Base course	Aggregate	m3	1,625.00	71.33	62.85	115,911.25	102,131.25	-13,780.00	
203b	Asphaltic base course	Plant mix	m3	11,875.00	27.08	16.43	321,575.00	195,106.25	-126,468.75	
209d	Scarification	Existing Pavement	m2	93.75	209.00	209.00	19,593.75	19,593.75	0.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50	361.01	219.00	22,563.13	13,687.50	-8,875.63	
303a	Tack coat	Cut-back Asphalt	m2	43.75	361.01	219.00	15,794.19	9,581.25	-6,212.94	
304c	Triple surface treatment	t = 21mm	m2	223.20	96.20	150.00	21,471.84	33,480.00	12,008.16	
305a	Wearing course	Plant mix	m3	11,875.00	18.05	10.95	214,343.75	130,031.25	-84,312.50	
401a	Concrete	Class A1	m3	9,750.00	205.05	204.35	1,999,237.50	1,992,412.50	-6,825.00	
401f	Lean concrete	Lean concrete	m3	5,625.00	15.86	15.86	89,212.50	89,212.50	0.00	
404h	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	22.20	22.20	2,164,500.00	2,164,500.00	0.00	
406d	Water stop	6"	m	785.00	17.00	17.00	13,345.00	13,345.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	5.20	0.00	16,900.00	0.00	-16,900.00	
604a	Steel guard rail		m	15,000.00	41.25	37.33	618,750.00	559,950.00	-58,800.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	90.00	90.00	8,775.00	8,775.00	0.00	
	Additional structural excavation	Soft rock material	m3	437.50	0.00	0.00	0.00	0.00	0.00	
	Additional gabion		m3	1,437.50	0.00	18.50	0.00	26,593.75	26,593.75	
	Additional kerb stone		m3	97,500.00		0.0	0.00	0.00	0.00	
	Additional painting for railing		m	774.00		37.33	0.00	28,893.42	28,893.42	New rate. 查定済。
	Additional stone masonry		m3	3,250.00		7.86	0.00	25,545.00	25,545.00	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
							0.00	0.00	0.00	
	TOTAL						7,153,207.15	6,853,123.92	-300,083.23	

2. CONSTRUCTION COST

2.5 Bridge No.5

Code	Item	Specification	Unit	Unit price (Rs.)	Quantity		Amount (PKR)		Deference (PKR)	Remarks
					Original	Final	Original	Final		
105	Demolition	Existing deck slab & parapet	m3	625.00	235.60	235.60	147,250.00	147,250.00	0.00	
106diii	Excavate surplus material	Soft rock	m3	425.00	164.24	150.68	69,802.00	64,039.00	-5,763.00	
107ciii	Structural excavation	Soft rock material	m3	437.50	1,104.50	1,104.00	483,218.75	483,000.00	-218.75	Including existing abutment
107d	Back fill	Granular material	m3	859.38	985.40	985.40	846,828.13	846,828.13	0.00	
108c	Formation of Embankment from borrow pit	Common material	m3	250.00	985.09	941.82	246,272.50	235,455.00	-10,817.50	
200	Stone base		m3	625.00	72.65	72.65	45,406.25	45,406.25	0.00	
201	Granular Sub-base		m3	1,000.00	84.55	85.93	84,550.00	85,930.00	1,380.00	
202	Base course	Aggregate	m3	1,625.00	92.43	122.35	150,198.75	198,818.75	48,620.00	
203a	Asphaltic base course	Plant mix	m3	11,875.00	35.48	28.31	421,325.00	336,181.25	-85,143.75	
209d	Scarification	Existing Pavement	m2	93.75	74.58	74.58	6,991.88	6,991.88	0.00	
302a	Prime coat	Cut-back Asphalt	m2	62.50	473.00	555.06	29,562.50	34,691.25	5,128.75	
303a	Tack coat	Cut-back Asphalt	m2	43.75	473.00	377.41	20,693.75	16,511.69	-4,182.06	
304c	Triple surface treatment	t = 21mm	m2	223.20	120.00	195.46	26,784.00	43,626.67	16,842.67	
305a	Wearing course	Plant mix	m3	11,875.00	23.65	27.75	280,843.75	329,531.25	48,687.50	
401a	Concrete	Class A1	m3	9,750.00	393.50	399.25	3,836,625.00	3,892,687.50	56,062.50	
401f	Lean concrete	Lean concrete	m3	5,625.00	33.76	33.76	189,900.00	189,900.00	0.00	
404h	Reinforcement	AASHTO M.31 Grade 60	ton	97,500.00	34.95	34.95	3,407,625.00	3,407,625.00	0.00	
406d	Water stop	6"	m	785.00	32.80	32.80	25,748.00	25,748.00	0.00	
411b	Stone masonry	With mortar	m3	3,250.00	2.60	3.99	8,450.00	12,967.50	4,517.50	
507a	Gabion		m3	1,437.50	32.98	32.98	47,408.75	47,408.75	0.00	
604a	Steel guard rail		m	15,000.00	68.75	69.90	1,031,250.00	1,048,500.00	17,250.00	
606b2	Pavement marking	Non-reflective TP paint W=15cm	m	97.50	150.00	150.00	14,625.00	14,625.00	0.00	
	Additional structural excavation	Soft rock material	m3	437.50		26.00	0.00	11,375.00	11,375.00	
	Additional gabion		m3	1,437.50		52.40	0.00	75,325.00	75,325.00	
	Additional painting		m2	774.00		69.90	0.00	54,102.60	54,102.60	New rate. 査定済。
	Additional kerb stone		m3	9,750.00		0.0	0.00	0.00	0.00	
	Adjustment of BOQ						-0.01	0.00	0.01	
	TOTAL						11,421,358.99	11,654,525.46	233,166.47	

APPENDIX - C

C: Minute of Meeting for Handing Over of the Facilities

Subject: MEMORANDUM OF UNDERSTANDING FOR TAKING OVER OF RECONSTRUCTED FOUR BRIDGES (NO.1, 2, 3&5) AND ONE BOX CULVERT (NO.4) DAMAGED BY OCT 8TH 2005 EARTHQUAKE ON JHELUM VALLEY ROAD MUZAFFARABAD.

JICA has provided Technical Assistance under Pakistan Transport Plan Study for Reconstruction of Five Bridges Damaged by October 8th 2005 Earthquake on the Jhelum Valley Road as per Scope of Work signed with Ministry of Communications, Government of Pakistan. JICA accordingly concluded an agreement for implementation of this aforementioned project with Nippon Koei Co; Ltd (Japan). As a further step in sequence, Nippon Koei Co; Ltd entered into an agreement on 25th July 2006, for reconstruction (execution and completion) and remedying of defects within the defects liability period of one year (365 days) from the date of handing over to JICA, with M/S SAMBU Construction Co. Ltd (KOREA). Nippon Koei Co; Ltd has accordingly monitored and carried out the supervision of this afore-mentioned project for its implementation as per provisions of the contract and in conformance with the contract quality assurance standards. All of these five number bridges as per contract, four bridges comprising bridge no. 1, 2, 3 & 5 and one box culvert no.4 have since been completed as under:

- Commencement date of project : 1st August 2006
(Five number bridges)
- Taking Over date for four bridges and one box culvert by NHA: 13th February 2008

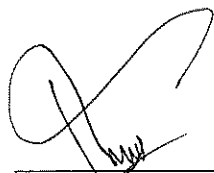
2- Nippon Koei Co; Ltd hereby certifies to have carried out the final inspection of the project on 13th February 2008 jointly with JICA and NHA officials and found these facilities having been completed as per terms of the contract and in accordance with the specified quality standards. Corrective works shall be carried out during the Defects Liability Period as per contract between Nippon Koei Co., Ltd and SAMBU Construction Co. Ltd.

These completed project facilities of bridge no.1, 2, 3 & 5 and box culvert no. 4, therefore, are hereby handed over to JICA.

3- In the light of the fore-goings, JICA hereby confirms the TAKING OVER of the subject facilities from M/S Nippon Koei Co; Ltd.

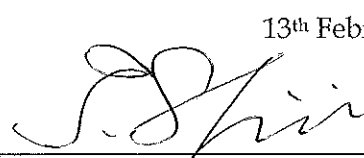
4- NHA, as the end user, hereby express to use the facilities and certifies the TAKING OVER of the subject project facilities from JICA.

5- NHA shall carry out the essential left over slope protection works at bridge no. 3 which were reduced from the scope of works due to budgetary constraints and also shall maintain properly the afore-mentioned handed over facilities.



National Highway Authority

Khan Zaid (NHA)
DD (M) NHA
Balakot



Japan International Cooperation Agency

(JICA)



Nippon Koei Co; Ltd
(NK)

13th February' 2008

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2. QUALITY CONTROL DATA

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