

TACIS Regional 2004 TRACECA Programme

## Rehabilitation of Caucasian Highways Azerbaijan Monthly Progress Technical Report

Segment 2 for Project Component II: Construction Supervision of Ganja  
to Gazakh - Highway Lot №1 Contract CW2002-1 and Lot №2 Contracts  
CW2003-1 to CW2003-4

Monthly Progress Report

November 2004 – MPR17/2004/AZ



This project is funded by  
The European Union



A project implemented by  
Louis Berger SA Paris France

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<i>EC Service Contractor's</i>	.....	.....	.....
<i>EC Delegation</i>	.....	.....	.....
<i>TACIS Bureau (Task Manager)</i>	.....	.....	.....
	<i>Name</i>	<i>Signature</i>	<i>Date</i>

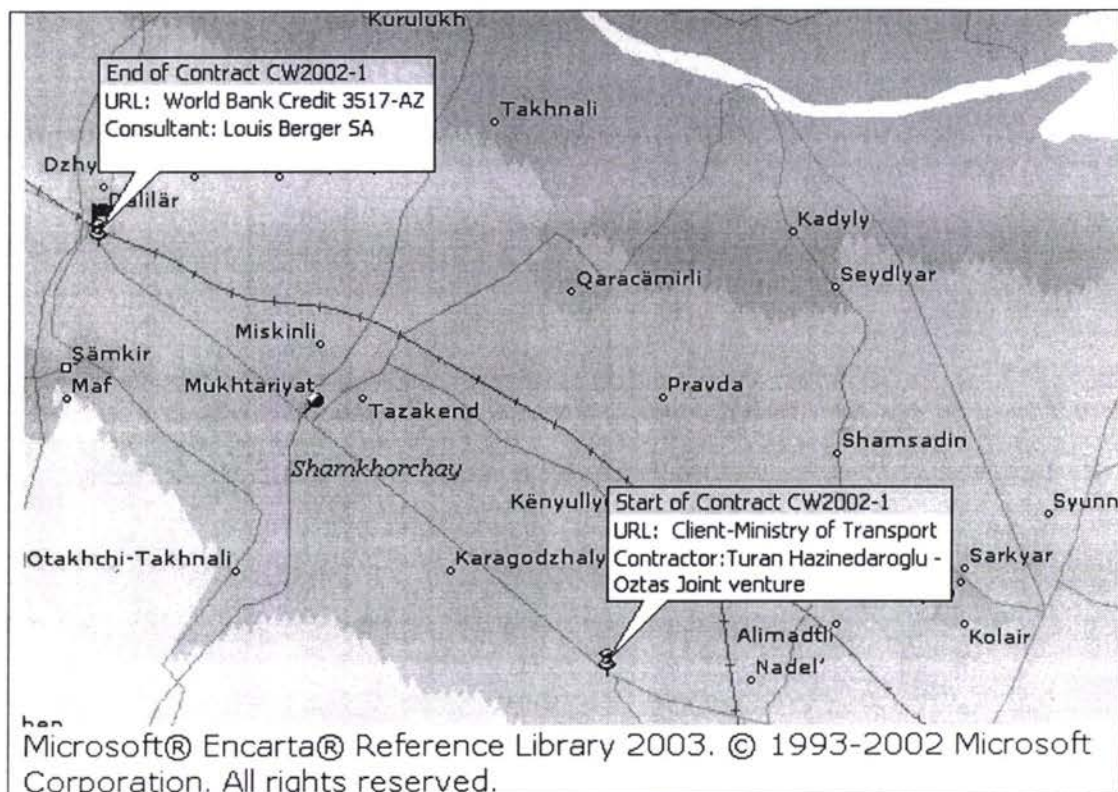


# Rehabilitation of Caucasian Highways Azerbaijan Monthly Technical report

Segment 2 for Project Component II:

Construction Supervision of Ganja to Shemkir - Highway

Contract CW2002-1



**I. Segment 2 for Project Component II: Construction Supervision of Ganja to Gazakh - Highway - Lot 1, Contract CW2002-1**

**1.1. Report Cover page**

**Table 1**

<b>Project Title</b>	<b>Construction Supervision of Ganja to Shemkir - Highway - Lot 1 Contract CW2002-1</b>	
<b>Service Contract</b>	EUROPEAID/113179/C/SV/MULTI	
<b>Country</b>	Azerbaijan	
	<b>Local Recipient - Partner</b>	<b>EC Service Contractor</b>
<b>Name</b>	Azerbaijan Republic Ministry of Transport	Louis Berger SA
<b>Address</b>	The Head of Road Transport Service Department Prospect Tbilisi 1054 The Ministry of Transport	Mercure III 55 Bis Quai de Grenelle 75015 Paris France
<b>Tel No</b>	+99 412 4930192	+ 33 1 45 78 39 32
<b>Fax No</b>	+99 412 4315655	+ 33 1 45 77 74 69
<b>Contact Person</b>	Mr. Javid G. Gurbanov	Mr. F. Signor
<b>E-mail</b>		fsignor@louisberger.com
		Project Team Leader
		Baku, Azerbaijan
		+994 12 498 84 31
		+994 12 493 24 76
		R. Degheim

**1.2. Project Synopsis**

**Table 2**

<b>Project Objectives</b>	<ul style="list-style-type: none"> <li>To support the Republic of Azerbaijan to catch up with their serious backlog maintenance, and to cope with growing Local, and International Transport.</li> <li>To improve and provide a better level of service for the travelling public on route corridors,</li> <li>To reduce costs in road transportation,</li> <li>To arrest deterioration of pavements (<i>road surfaces</i>) by timely intervention,</li> <li>To reduce costs for road rehabilitation and maintenance.</li> <li>The specific objective of this component of the Project is the supervision of the Works between Ganja and Shemkir. This forms part of the ancient "Silk Road"</li> <li>To ensure that the new road rehabilitation and reconstruction is completed to the internationally specified standards and to be completed within the budget and time Available.</li> <li>To strengthen the national road construction and maintenance capabilities through Transfer of technology.</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>Good Roads completed to best standards and at the budget price.</li> </ul>
<b>Project activities</b>	<ul style="list-style-type: none"> <li>To rehabilitate and upgrade the existing highway Ganja to Shemkir Lot 1, Contract CW2002-1</li> </ul>
<b>Start date</b>	<ul style="list-style-type: none"> <li>Contract signature March 24<sup>th</sup>2003</li> </ul>
<b>Start activities</b>	<ul style="list-style-type: none"> <li>April 21<sup>st</sup>2003</li> </ul>
<b>Duration</b>	<ul style="list-style-type: none"> <li>458 days + 1<sup>st</sup> EoT 3 months + 2<sup>nd</sup> EoT 42 days</li> </ul>

**1.3. Monthly Progress Report**

**1.3.1. General**

This section of the Project covers the supervision of the Rehabilitation and Upgrading of the Ganja-Shemkir section of the Azerbaijan Highway Project Contract CW 2002-1. The project is organised in the standard International format using the General Conditions of Contract as issued by the World Bank for projects under \$10,000,000. The works were designed in coordination with Azeravtoyol by a consortium composed of Kocks Consult GMBH (Germany) BCEOM (France) and Finnroad Ltd (Finland). The supervision of the Works Contract forms part of the Rehabilitation of Caucasian Highways Azerbaijan Georgia and Armenia Contract Number



EUROPEAID/113179/C/SV/MULTI and is carried out by Louis Berger SAS of Paris France. The project is funded by means of a credit from the International Development Association (IDA), or the World Bank. A Project Implementation Unit attached to RoadTransService controls the project on behalf of the Employer. A list of the Key Personal is presented below.

**Table 3**

<b>Funding Agent</b>	International Development Association The World Bank 1818 H Street, NW Washington, DC 20433, USA
Mr. Oliver Le Ber	Lead Transport Specialist Infrastructure Sector Unit Europe and Central Asia Region
<b>Employer</b>	Azerbaijan Republic Ministry of Transport "Yolnegliyatsevis" address: Prospect Tbilisi 10/54 The Ministry of Transport Tel: 99412 4930192 Fax: 99412 4315655
Mr. Cavid Gurbanov Gamber	Chief of the Department
<b>Project Implementation Unit</b>	72/4 Uzeyir Hajibeyov Street 370010 Baku
Mr A. Gojayev	Director
<b>EUROPEAID EC Brussels</b>	
Mr. E. Dalamangas	Project Manager
<b>Service Supervision Contractor</b>	
Louis Berger SAS	Murcure III, 55Bis Quai de Grenelle Paris 75015
R. Degheim	Team Leader / Project Manager
S. I. Dotchev	Project Manager's Representative, Resident Engineer
<b>Contractor</b>	Turan Hazinedaroglu Joint Venture
T. Uslu	Project Manager

**1.3.2. Project Data**

**Table 4**

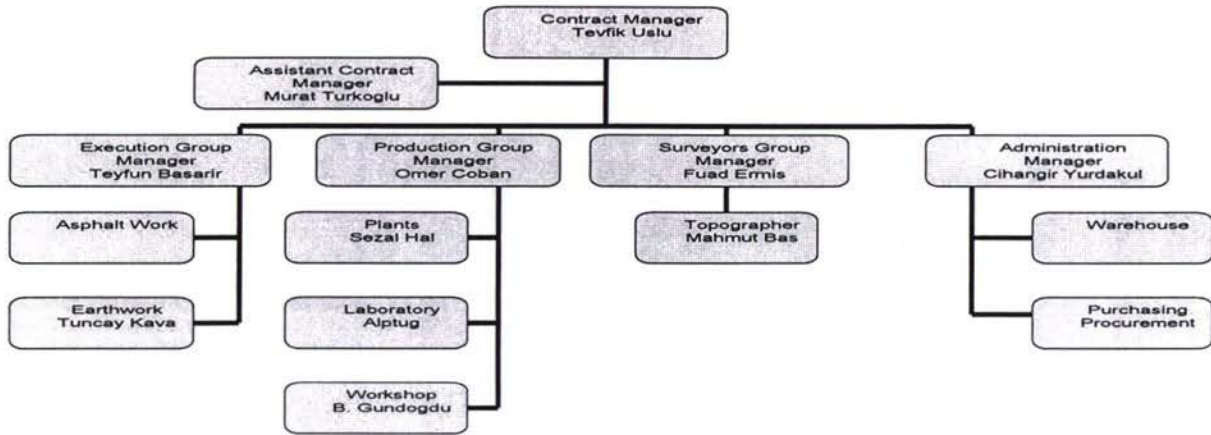
<b>Works Contract CW 2002-1</b>	
Works Tender Opened	14 <sup>th</sup> May 2002
Contract Awarded	30 <sup>th</sup> December 2002 by IDA
Letter of Acceptance Issued	24 <sup>th</sup> March 2003
Contract Agreement Signed	April 9 <sup>th</sup> 2003
Tender Amount	28,749,462,180.50 AZM
Contract Amount Article 15.3	29,903,403,179.00 AZM
Revised Contract amount-Art.15.3	30,314,138,171,55 AZM
Contract Start Date	21 <sup>st</sup> April 2003
Original Contract Completion Date	21 <sup>st</sup> July 2004
Extended Completion Date	3 <sup>rd</sup> December 2004
Defects Liability Period	365 days
1 <sup>st</sup> Works Programme received	18 <sup>th</sup> April 2003
Last revision of Works Programme	20 <sup>th</sup> October 2004
Value of Works to date as per IPCs	23,992,210,206.89 AZM
Value of Works to date	27,077,542,217.20 AZM
Value of Works to date (%)	97.86%
Variations	VO №1,2, 3, 4, 5 and 6 been issued, 7 <sup>th</sup> under preparation
Advance Payment Received – 20%	5,980,680,936.00 AZM
Repayments made	5,293,525,682.00 AZM
Claims	Claim entered - Adjust Contract price - Clause 45 Taxes – Contractor's letter 157 dated July 30 <sup>th</sup> 2004
Time elapsed to date	590 days
Time remaining to date	3 days (extended Completion date of Dec 3 <sup>rd</sup> 2004)

### 1.3.3. Progress report

#### 1.3.3.1. Contractor's staff

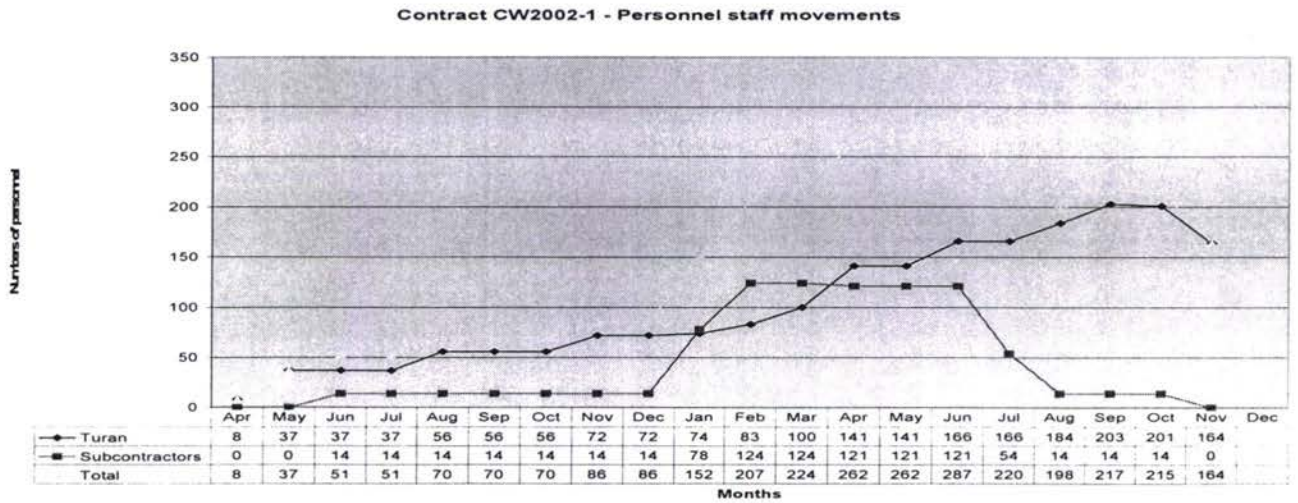
##### 1.3.3.1.1. Management staff and organization (organogramme)

Figure 1



##### 1.3.3.1.2. Personnel staff employed

Figure 2



##### 1.3.3.2. Contractor's machinery and equipment

Table 5

Item	Description	Model and capacity	Unit	For Project	Available	Work day
1	Asphalt Plant		no	1	1	30
2	Batch Plant for Sub-base	GMS,400t/h	no	1	1	30
3	Crusher and Sorter	NACE,250t/h	no	1	1	30
4	Scale	ESIT,100t	no	1	1	30
5	Generators	FIAT,50kW	no	1	3	30
6	Cut-Back Plant for MC CSSS-1		no	0		
6	Asphalt and Sub-base Paver		no	3	2	30
7	Rubber Banded Asphalt Roller		no	2	2	30
8	Steel Banded Asphalt Roller		no	3	3	30
9	Rolley Tank		no	5	2	30



10	Distributor for Bitumen		no	1	1	30
11	Graders	CAT140G/H,Champion	no	6	5	30
12	Bulldozers	CAT D7-G,D7-R,D9-L	no	3	3	30
13	Excavators	CAT315/325/Fiat-Hitachi	no	3	3	30
14	Loaders	CAT950/938/966	no	5	5	30
15	Backhoe loader	EFERMEC	no	1	1	30
16	Vibratory Rollers	BOMAG212,16t.	no	4	3	30
17	Water Distributor		no	3		
18	Trailer for carrying Equipments		no	2		
19	Trucks	BMC/DODGE/FORD/IVECO/KAMAZ-10/15t	no	25	45	30

### 1.3.3.3. Project activity to date

Table 6

	Name of Work	Unit	Quantity	Work Done	% Work done	Remaining Works	Remaining Works KM
						25/11/2004	
1	Binder	m <sup>2</sup>	199,295.40	194738.13	96.6%	4,557.27	Km ; 12+960 - 13+460
2	Wearing	m <sup>2</sup>	203,227.61	120085.00	59.1%	83,142.61	Km ; 12+960 - 20+680
3	Tack Coat - Prime Coat	m <sup>2</sup>	600,831.00	513645.40	85.5%	87,185.60	Km ; 12+960 - 13+460 Km ; 12+960 -20+680
4	Drainage channel	m	8,650.00	7350.00	91.9%	1,300.00	
5	Shoulder sub base	m <sup>3</sup>	26,139.00	20339.00	77.8%	5,800.00	Km ; 12+960 - 20+680
6	Access Road	piece	26.00	13.00	50.0%	13.00	Asphalt works
7	Seal Coat	m <sup>2</sup>	96,672.00	49920.00	51.6%	46752.00	Km; Rhs 2+500 - 4+200 Rhs :12+960 - 20+680 Lhs ;2+500 - 4+300 Lhs ;12+940 - 20+680
8	Road Paint	m <sup>2</sup>	8500	3000.00	35.3%	5,500.00	
9	Guardrail	m	4000	400.00	10.0%	3,600.00	
10	Traffic Signs	piece	242	45.00	18.6%	197.00	
11	Electric Relocations	piece	4.00	4.00	100.00%	0.00	
12	Pipe O 600	m	369	60.00	16.8%	309.00	
13	Slope Preparation	m <sup>2</sup>	250,000.00	150000.00	74.39%	100000	Km; 12+940 - 20+680
14	Delineators	piece	715		0.0%	715.00	
15	Chutes	m	3160		0.0%	3,160.00	
16	Bus Stop and Lighting	piece	10		0.0%	10.00	
17	Cleaning of Inlet and outlet of concrete structures	piece	63.00		0.00%		
18	Stripping of Topsoil	m <sup>2</sup>	68000		0.0%	68,000.00	

### 1.3.3.4. Project progress summary

The Volume of Works completed to Nov 31<sup>st</sup>2004 represents 97,86% from the Revised (Variation orders from 1 to 6 taken into account) Contract value.

### 1.3.3.5. Conclusions

The Contractor is to produce a remaining volume of Works for about AZM 4,060,128,085.00 for the remaining time of 3 days.

### **1.3.4. Claims and Variations Orders**

#### **1.3.4.1. Intention of Claims**

##### **1.3.4.1.1. IPC late payments**

The Contractor has recorded - intention to claim extra cost (see Contractor's letter 97 dated April 8<sup>th</sup>2004) under - Clause 43.1 Section IV. Conditions of Contract for late payments on IPCs, however the claim has not been forwarded yet.

##### **1.3.4.1.2. Claims**

###### **1.3.4.1.2.1. Change in legislation (Vat – Clause 45 Taxes)**

The Contractor entered new claim – Claim change in Legislation; VAT - Clause 45 Taxes – Contractor's letter 157 dated July 30<sup>th</sup>2004. Claim has been forwarded to RTSD on 2<sup>nd</sup>August 2004 (Consultant letter P228).

###### **1.3.4.1.2.2. Extension of time**

The Contractor's claim been resolved and extension of 42 days been granted. Final completion date is set for December 3<sup>rd</sup>2004.

#### **1.3.4.2. Variation Orders**

##### **1.3.4.2.1. Variation order №1 – Extension of time**

The Contractors claim №1 for extension of time have been resolved and new completion date have been fixed as 21<sup>st</sup>October 2004 (VO №1).

##### **1.3.4.2.2. Variation order №2 – Modifying the end of the Project for an amount of (-147,862,280.86AZM)**

The end of the Project has been modified by reducing 60m' in order to have existing ring crossing road in one Contract (Contract 2003-1). The end of Contract CW2002-1 is now at km 20+680 instead of km 20+740. The Variation Order №2 has been issued to the Contractor on 26<sup>th</sup>July 2004.

##### **1.3.4.2.3. Variation order №3 – Bridge 30 revised redesign for amount of (-68,649,238.00)**

The VO3 is finalised.

This VO's has been issued due to the substitution of monolith reinforcement slab with No8 RC girder. The value VO3 is –68,649,238 AZM.

##### **1.3.4.4. Variation order №4 (Single Seal on Shoulders) for amount of (+386,979,600.00)**

The Contractor has proposed to carry out Single Seal on Shoulders. His proposal has been studied by the Consultant and approved by the Employer.

The VO4 has been issued.

The value of this VO is +386,979,600 AZM.

##### **1.3.4.5. Variation order №5 (Rain Water Collectors on High Fills) for amount of (+224,417,080.00)**

The Contractor has proposed to carry out rain water gutters on high fills. His proposal has been approved by the Employer and the Contractor has been instructed accordingly. The VO has been issued, and signed by the concerned parties.

The value of this VO is +224,417,080 AZM.

##### **1.3.4.6. Variation order №6 – no extra cost**

An Extension of Time of 42 days has been granted to the Contractor. This EoT is related to increase of quantities, unsuitable soils, single seal on shoulders, storm water drainage on high fills, bad weather conditions





**Louis Berger S.A.S**  
Mercure III 55 Bis quai de Grenelle  
75015 Paris



**Rehabilitation of Caucasian Highways  
Azerbaijan Georgia and Armenia**

EUROPEAID/113179/C/SV/MULTI



This Project is funded by the European Union

Team Leader  
Baku

Traceca Coordination Team  
Baku

Reference PS277/P328/04/175/RD/fb

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09 December, 2004

Subject: **Monthly Technical Progress Report – November 2004**

For the attention of Mr. Bodo Rössig

Dear Sir,

Please, find attached the Monthly Technical Progress Report for November 2004 in English version.

The soft copy is also being attached.

Thanking you in advance.

Yours Sincerely,

Razek Degheim  
LBSAS Team Leader/ Project Manager

Enc: - hard copy in English version (1 document).  
- CD (1).

cc: - Louis Berger SAS – Mr. F. Signor  
- PM's Representative – Mr. S. Dotchev

and other elements. The VO has been issued and signed by the concerned parties. No additional cost to the Project caused by this VO.

#### 1.3.4.7. Variation order № 7 – Revised B&Q for amount of (+3,634,859,161.89)

The Variation order is under preparation

#### 1.3.4.8. Summary for Variation orders

Table 7

Variation Order Number	Description	Value AZM
VO No 1	Extension of Time	0.00
VO No 2	Modifying the end of the Project	-147,862,280.86
VO No 3	Bridge No 30 at km 2+555	-68,649,238.00
VO No 4	Single seal on shoulders	386,979,600.00
VO No 5	Rain water collector on high fills	224,417,080.00
VO No 6	Extension of Time	0.00
VO No 7	Revised BoQ	3,172,658,249.89

#### 1.3.5. Financial

##### 1.3.5.1. Interim Payment Certificates to date

Table 8

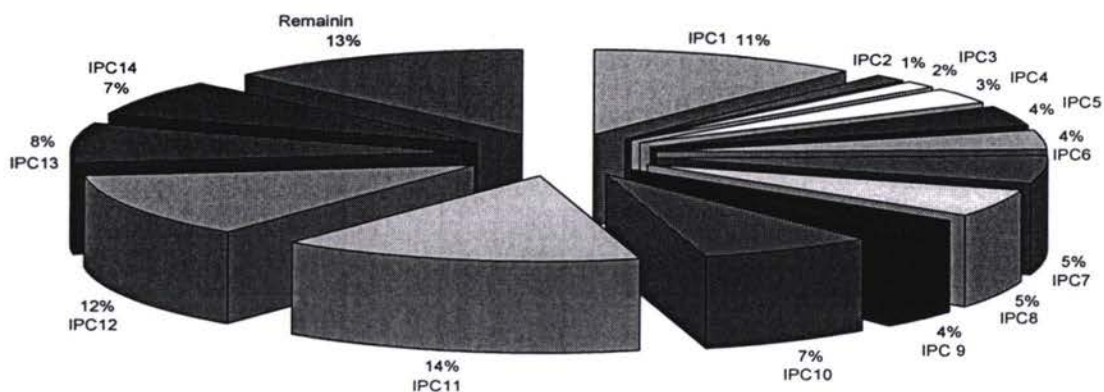
Item	Date	IPC	Value AZM	%	Status
1	30/05/03	IPC 1	3,277,448,972.89	11.01%	paid
2	04/07/03	IPC 2	417,198,206.00	1.40%	paid
3	17/08/03	IPC 3	467,687,830.00	1.57%	paid
4	10/09/03	IPC 4	900,048,107.00	3.02%	paid
5	30/11/03	IPC 5	1,110,117,798.00	3.73%	paid
6	31/01/04	IPC 6	1,072,592,505.00	3.60%	paid
7	29/02/04	IPC 7	1,623,995,889.00	5.46%	paid
8	31/03/04	IPC 8	1,552,060,284.00	5.22%	paid
9	30/04/04	IPC 9	1,092,735,343.00	3.67%	paid
10	31/05/04	IPC10	2,132,600,087.00	7.17%	paid
11	30/06/04	IPC11	4,478,712,465.00	15.05%	paid
12	31/08/04	IPC12	3,614,162,119.00	12.15%	paid
13	30/09/04	IPC13		7.57%	Not yet
14	31/30/04	IPC14		6.80%	Not yet
		To date	26,016,026,874.89	87.43%	Not fully
		Available	3,739,514,023.11	12.57%	Remained
		Contract price	29,755,540,898.00	100.00%	

The IPC 15 has not been entered yet at the time of preparation of the Report.



Figure 3

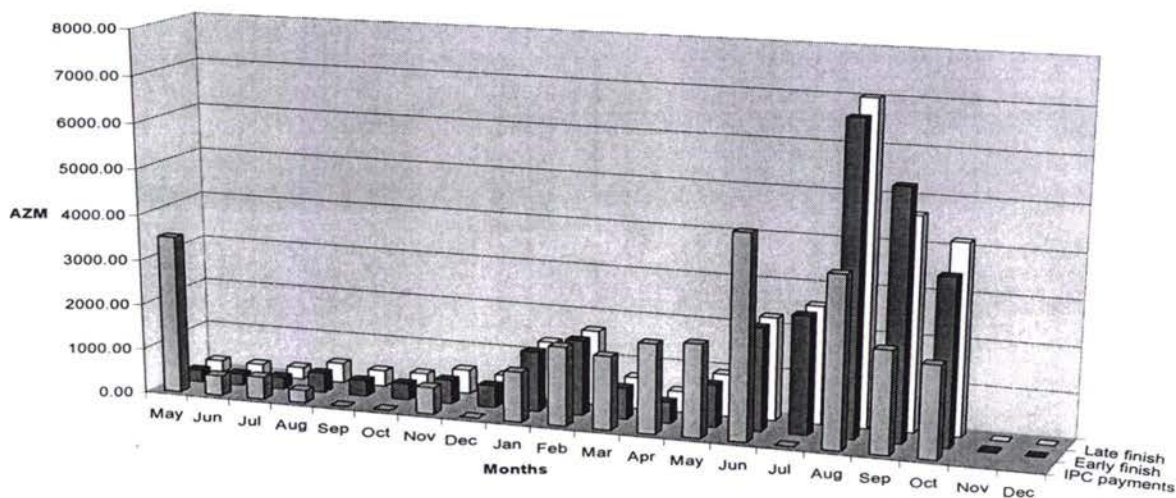
Contract CW2002-1, IPCs payments and the remaining value of Works



1.3.5.2. Cash flow projection

Figure 4

Contract CW2002-1, Comparison between the Contractor's updated cash flow projection (September 5, 2004) and the actual IPCs payments



1.3.5. Testing results

Table 9

Description of Work		Test Performed				Remarks
		Total	Passed	Retested	% Passed	
<b>Granular Shoulder (sub base material) 225mm</b>						
1	Gradation (Combined)	4	4	0	100	
2	FDT/Nuclear Density	137	116	21	84.7	
3	MDD/Proctor	4	4	0	100	
4	LAA	0	0	0	0	
5	Sp. Gravity	0	0	0	0	

6	Water Absorption	0	0	0	0
7	Moisture Content	4	4	0	100
8	CBR	4	4	0	100
9	PI	4	4	0	100
<b>Concrete Works</b>					
1	Compression Test	0	0	0	0
2	Slump	6	6	0	100
3	Gradation	0	0	0	0
4	LAA	0	0	0	0
5	Soundness	0	0	0	0
6	Sp. Gravity	0	0	0	0
7	Flakiness Index	0	0	0	0
8	Sand equivalent	0	0	0	0
9	Unit Weight	0	0	0	0
<b>Bituminous road base 2 (75mm)</b>					
1	Gradation	11	11	0	100
2	LAA	1	1	0	100
3	Stripping Test	0	0	0	100
4	Fractured face	0	0	0	100
5	Core-cutting (thickness)	11	11	0	100
6	Extraction test	11	11	0	100
7	Stability	11	11	0	100
8	Flow	11	11	0	100
9	Air Voids	11	11	0	100
10	VMA/VFA	11	11	0	100
<b>Flexible bituminous surface (50mm)</b>					
1	Gradation	2	2	0	100
2	LAA	0	0	0	100
3	Stripping Test	0	0	0	100
4	Fractured face	1	1	0	100
5	Core-cutting (thickness)	2	2	0	100
6	Extraction test	2	2	0	100
7	Stability	2	2	0	100
8	Flow	2	2	0	100
9	Air Voids	2	2	0	100
10	VMA/VFA	2	2	0	100

### 1.3.7. Correspondence records

#### 1.3.7.1. Incoming Letters

Table 10

Item	Date	Authc	Sender's	Date on the	In respons	Subject	Attach-	Reply status		
								Required	Date	Our
	Received	from	ref	Letter	to		ments	Yes / No	Sent	Ref:
1	05/11/2004	M.T	184	05/11/2004	N/A	Rehabilitation of the box culvert at Km 0+002	yes	yes	12/11/2004	254
2	05/11/2004	M.T	185	05/11/2004	N/A	Seal Coat Designs	yes	yes	12/11/2004	255
3	05/11/2004	M.T	186	05/11/2004	N/A	Headwall for d-600 mm pipes	yes	yes	12/11/2004	256
4	08/11/2004	M.T	187	05/11/2004	N/A	IPC No 14	yes	yes	08/11/2004	249
5	15/11/2004	M.T	188	12/11/2004	N/A	Certificate for Road Marking Paint	yes	yes	24/11/2004	258
6	15/11/2004	M.T	189	15/11/2004	N/A	Extension of Time	yes	no		
7	17/11/2004	M.T	190	16/11/2004	N/A	Revised BOQ	yes	yes	25/11/2004	259
8	29/11/2004	Q.Q	01/1564	25/11/2004	N/A	VSN test results	no	no		
9	29/11/2004	T.B	191	27/11/2004	N/A	Traffic project	yes	yes		
10	29/11/2004	T.B	192	27/11/2004	N/A	Material certificates for guardrails	yes	yes		
11	29/11/2004	T.B	193	27/11/2004	N/A	New bus stop design	yes	yes		

#### 1.3.7.2. Outgoing letters

Table 11



Item	Date Posted	Author initials	Our ref	Date Written	In response to	Subject	Attachments	Replay status		
								Required Yes/No	Date Sent	Sender's Ref.
1	02/11/2004	S.D	248	02/11/2004	N/A	Request for inspections	no	yes		
2	09/11/2004	S.D	249	08/11/2004	187/05.11.04	Letter 187	no	no		
3	09/11/2004	S.D	250	08/11/2004	176/29.09.04	Letter 176	no	no		
4	09/11/2004	S.D	251	08/11/2004	183/27.10.04	Letter 183	no	no		
5	09/11/2004	S.D	252	09/11/2004	N/A	Monthly Progress Minutes of Meeting October 2004	yes	no		
6	10/11/2004	S.D	253	10/11/2004	01/1489-08.11.04	Letter 01/1489	yes	no		
7	15/11/2004	S.D	254	12/11/2004	184/05.11.04	Letter 184	no	no		
8	15/11/2004	S.D	255	12/11/2004	185/05.11.04	Letter 185	no	yes		
9	15/11/2004	S.D	256	12/11/2004	186/05.11.04	Letter 186	no	no		
10	22/11/2004	S.D	257	22/11/2004	N/A	Updated and revised Work Programme	no	yes		
11	26/11/2004	S.D	258	25/11/2004	188/12.11.04	Letter 188	no	no		
12	26/11/2004	S.D	259	25/11/2004	190/16.11.04	Letter 190	no	no		
13	29/11/2004	S.D	260	29/11/2004	01/1556-25.11.04	Letter 01/1556	yes	no		
14	29/11/2004	S.D	261	29/11/2004	N/A	Minutes of Meeting-November2004	yes	no		

### 1.3.8. Project progress photos

- Finishing off the wearing course
- Road marking in place
- Road signature in place
- Crush barriers fixing in place
- 600mm pipe culvert – with in the side drains to allow access to properties
- Single seal to shoulders

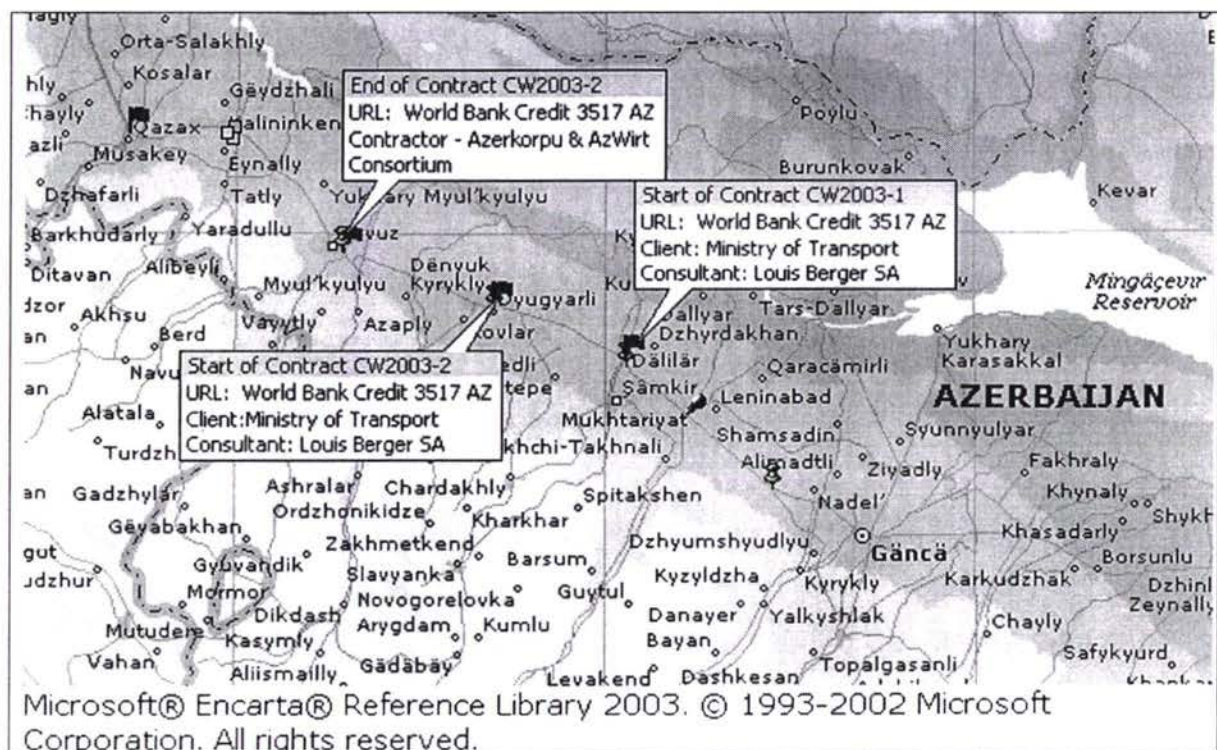
*Photos have been taken out from the Report and would be sent if requested.*

# Rehabilitation of Caucasian Highways Azerbaijan Monthly Technical report

Segment 2 for Project Component II:

Construction Supervision of Shemkir to Gazakh - Highway

Contracts CW2003-1 and CW2003-2





**II.Segment 2 for Project Component II: Work Contracts Lot 2, Contract CW 2002-2 now referred to as Contracts CW 2003-1 to CW2003-4 Shemkir-Gazakh Section**

**A. Contracts CW2003-1 and CW2003-2**

**A.2.1. Report Cover page**

**Table 1**

<b>Project Title</b>	<b>Construction Supervision of Shemkir to Gazakh Highway - Contracts CW2003-1 and CW2003-2</b>	
<b>Service Contract</b>	EUROPEAID/113179/C/SV/MULTI	
<b>Country</b>	Azerbaijan	
	<b>Local Recipient - Partner</b>	<b>EC Service Contractor</b>
<b>Name</b>	Azerbaijan Republic Ministry of Transport	Louis Berger SA
<b>Address</b>	The Head of Road Transport Service Department Prospect Tbilisi 1054 The Ministry of Transport	Mercure III 55 Bis Quai de Grenelle 75015 Paris France
<b>Tel No</b>	99412 4930192	+ 33 1 45 78 39 32
<b>Fax No</b>	99412 4315655	+ 33 1 45 77 74 69
<b>Contact Person</b>	Mr. Javid G. Gurbanov	Mr. F. Signor
<b>E-mail</b>		fsignor@louisberger.com
		Project Team Leader
		Baku, Azerbaijan
		+994 12 498 84 31
		+994 12 493 24 76
		R. Degheim

**A.2.2. Project Synopsis**

**Table 2**

<b>Project Objectives</b>	<ul style="list-style-type: none"> <li>To support the Republic of Azerbaijan to catch up with their serious backlogs in road maintenance, and to cope with growing Local, and International Transport.</li> <li>To improve and provide a better level of service for the travelling public on route corridors,</li> <li>To reduce costs in road transportation,</li> <li>To arrest deterioration of pavements (<i>road surfaces</i>) by timely intervention,</li> <li>To reduce costs for road rehabilitation and maintenance.</li> <li>The specific objective of this component of the Project is the supervision of The Works Contracts between Shemkir and Gazakh. This forms part of the ancient "Silk Road"</li> <li>To ensure that the new road rehabilitation and reconstruction is completed to the internationally specified standards and to be completed within the budget and time available.</li> <li>To strengthen the national road construction and maintenance capabilities Through transfer of technology.</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>Good Roads completed to best standards and at the budget price.</li> </ul>
<b>Project activities</b>	<ul style="list-style-type: none"> <li>To rehabilitate and upgrade the existing highway Shemkir to Gazakh – Contracts CW2003-1 and CW2003-2</li> </ul>
<b>Start date</b>	<ul style="list-style-type: none"> <li>February 23<sup>rd</sup>2004</li> </ul>
<b>Start date activities</b>	<ul style="list-style-type: none"> <li>February 23<sup>rd</sup>2004</li> </ul>
<b>Project duration</b>	<ul style="list-style-type: none"> <li>18 months or <b>548 days</b></li> </ul>

**A.2.3. Monthly Progress Report**

**A.2.3.1. General**

This section of the Project covers the supervision of the Rehabilitation and Upgrading of the Shemkir - Gazakh section of the Azerbaijan Highway Project Contracts CW 2003-1 and CW 2003-2. The project is organised in

the standard International format using the General Conditions of Contract as issued by the World Bank for projects under \$10,000,000. The works were designed in coordination with Azeravtoyol by a consortium composed of Kocks Consult GMBH (Germany) BCEOM (France) and Finnroad Ltd (Finland). The supervision of the Works Contract forms part of the Rehabilitation of Caucasian Highways Azerbaijan Georgia and Armenia Contract Number EUROPEAID/113179/C/SV/MULTI and is carried out by Louis Berger SA of Paris France. The project is funded by means of a credit from the International Development Association (IDA), or the World Bank. A Project Implementation Unit attached to RoadTransService controls the project on behalf of the Employer. A list of the Key Personal is presented below.

**Table 3**

<b>Funding Agent</b>	International Development Association The World Bank 1818 H Street, NW Washington, DC 20433, USA
Mr. Oliver Le Ber	Lead Transport Specialist Infrastructure and Sector Unit Europe and Central Asia Region
<b>Employer</b>	Azerbaijan Republic Ministry of Transport "Yolnegliyatsevis" address: Prospect Tbilisi 10/54 The Ministry of Transport Tel:99412 4930192 Fax:99412 4315655
Mr. Cavid Gurbanov Gamber	Chief of the Department
<b>Project Implementation Unit</b>	72/4 Uzeyir Hajibeyov Street 370010 Baku
Mr A. Gojayev	Director
<b>EUROPEAID EC Brussels</b>	
Mr. E. Dalamangas	Project Manager
<b>Service Supervision Contractor</b>	
Louis Berger SAS	Murcure III, 55Bis Quai de Grenelle Paris 75015
R. Degheim	Team Leader / Project Manager
S. I. Dotchev	Project Manager's Representative, Resident Engineer
<b>Contractors</b>	Azerkorpu – Azwirt Consortium

**A.2.3.2. Project Data**

**Table 4**

<b>Works Contracts CW 2003-1 and CW2003-2</b>	
Works Tender Opened	September 2 <sup>nd</sup> 2003
Letter of Acceptance	December 27 <sup>th</sup> 2003
Contract Agreement Signed	January 22 <sup>nd</sup> 2004
Possession of site	February 5 <sup>th</sup> 2004
Tender amount	61,800,315,562.42 AZM
Contract Amount	60,082,264,241.00 AZM
Contract revised value including VO	60,214,171,978.85 AZM
Contract Start Date	February 23 <sup>rd</sup> 2004
Original Contract Completion Date	August 23 <sup>rd</sup> 2005
Extended Completion Date	N/A
Defects Liability Period	365 days
1 <sup>st</sup> Works Programme received	March 24 <sup>th</sup> 2004
Last revision of Works Programme	Oct 27 <sup>th</sup> 2004 not accepted. Contractor to forward new one.
Value of Works to date as per IPCs	8,274,787,923.50AZM
Value of Works done	9,032,125,796.82AZM
Value of Works done (%)	15.0%
Variations	Variation order №1 for amount of +131,907,737.85 AZM
Advance Payment (20%)	AZM 12,016,452,848.20
Repayments made	N/A



Delays	63 days (excluding delay of about 5 months for longitudinal redesign)
Claims	Claim №1 – Late advance payment, under PM consideration Claim №2 – Late paid portion of advance payment, under PM consideration
Time elapsed to date	282 days
Time remaining to date	266 days

### A.2.3.3. Progress report

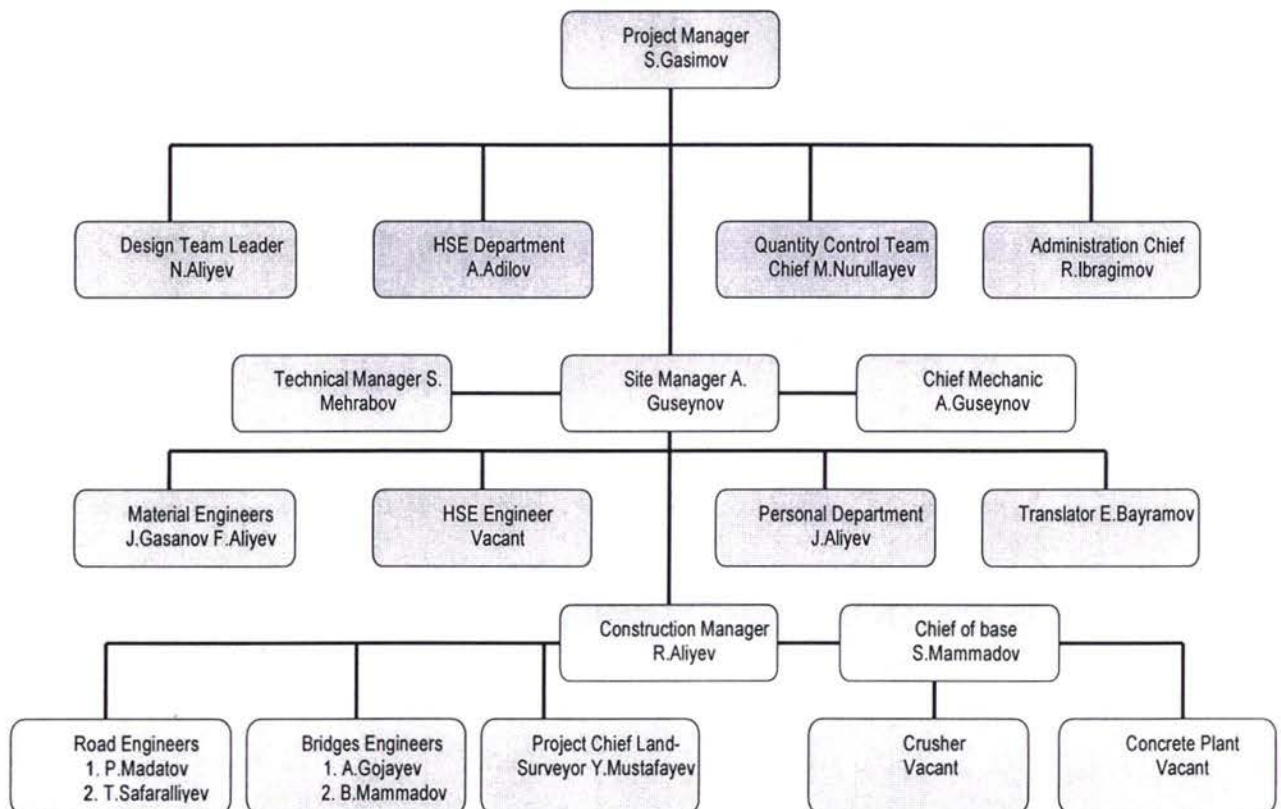
#### A.2.3.3.1. Status of the Project

Since start (February 23, 2004) the Contractor have been on site 282 days or 51.46% of the Contractual time and to date are remaining 266 days or 48.54% of the Contractual time.

##### A.2.3.3.1.1. Contractor's site staff

##### A.2.3.3.1.1.1. Contractor's site management staff organisation (organogramme)

Figure 1

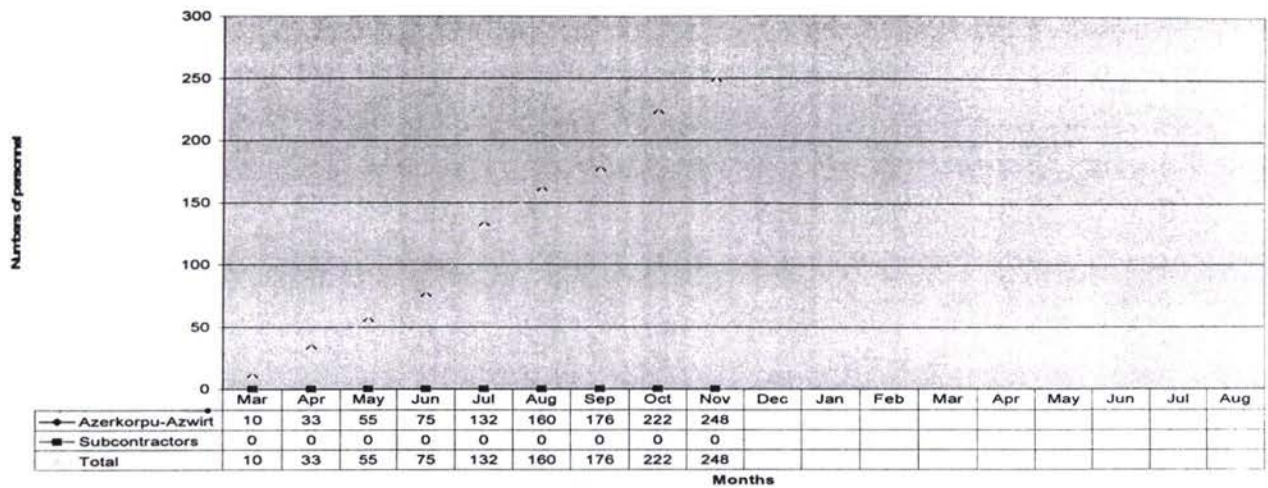


##### A.2.3.3.1.1.2. Contractor's site staff employed

Contractor at present has employed for construction on this project – 248 people (including locals 156)

Figure 2

Contracts CW2003-1 & 2 - Personnel staff movements



A.2.3.3.1.2. Contractor's machinery and equipment

Table 5

Item	Description	Model and capacity	Unit	For project	Available	Work day
1	Dumper truck	Mercedes ,KAMAZ;65115 5511MAZ5516,5319	no	0	20	25
2	Crane	RDK	no	0	0	0
3	Water tanker	MAZ5334	no	0	2	21
4	Microbus/BUS	FORD - KIA PAZ-3205	no	2	3	27
5	Truck	QAZ-53/QAZ-52	no	4	0	0
6	Vibro roller	Bomag/dynapac	no	8	0	0
7	Excavator	Cat318/EO 5129/CAT330,,Litronik - 932 EO- 3322	no	2	6	23
8	Grader	DZ-1225-1-" DOMAS" CAT140H DZ-180	no	4	4	25
9	Loader	CaT950G,L-538	no	2	2	24
10	Welding Machine		no	0	0	0
11	Trailer		no	2	0	0
12	Milling Machine	Wirtgen	no	2	0	0
13	Crusher Plant	SBM 10/12/6 &10/6/6;220 t/h; 1993	no	2	0	0
14	Asphalt mix Plant	Wibau GmbH	no	2	0	0
15	Vibrating plate	Bomag	no	4	0	0
16	Bulldozer	T-170,CAT D8R, CAT D5N	no	2	3	26
17	Truck crane	KATO,MAZ3577,Dnepr- 3573,kazmaz53215	no	4	4	28
18	Water carrier		no	0	0	0
19	Welding set		no	0	0	0
20	Generator	DT-75	no	0	1	25
21	Drilling Rig	Soilmec 516	no	0	0	0
22	Asphalt Paver	Joseph Voegel AG	no	2	0	0
23	Pneumatic roller	Bomag	no	6	0	0
24	Cold milling Machine	Wirtgen	no	2	0	0
25	Semi trailer low bed	Yalchin Dorse Damper San	no	2	0	0
26	Concrete Mixer	Atika Ultra	no	2	0	0
27	Concrete Mixer	Stroy mash KAMAZ	no	4	2	27
28	Bitumen Spreader	KAMAZ	no	2	0	0
29	Service van	Gazelle	no	2	0	0



30	Road roller	BOMAG 65H;-BW-219 DH-3;-212DZ; 216DZ,;BOXER,Vibrokatok -VM106D	no	2	6	26
31	Compressor	Atlas	no	2	0	0
32	Hidrohammer	Krupp	no	6	0	0
33	Testing bore	Germany	no	2	0	0
34	Surveyor -Zeiss N2	Germany	no	2	0	0
35	Lorry	QAZ-66 QAZ-33023-14,UAZ-452	no	0	3	26
36	Car	VAZ-21214 Hunday Sonata	no	0	8	30
37	Fuel tanker	ZIL -130	no	0	1	29

### A.2.3.3.1.3. Contractor's Work programme

The Contractor did not submit revised and updated WP yet, however they are busy verifying the estimated redesigned volumes of Works.

### A.2.3.3.2. Project activity to date

Item	Project activity to date															%			
	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30		25	20	15
1	Consultant's staff mobilization															100			
2	Project Manager's office accommodations															100			
3	Project Manager's house accommodations															100			
4	Project Manager's vehicles															75			
5	Contractor's staff mobilization ()															90			
6	Contractor's office accommodations															80			
7	Contractor's staff quarters															90			
8	Contractor's laboratory															75			
9	Contractor's machinery and equipment mobilization ()															50			
10	Contractor verifying Project bench marks															100			
11	Existing ground elevations															75			
12	<b>Overlay (T-1)3,190/3,580km=6,770km (T-2)3,020/2,315 km=5,335km</b>															0			
13	Overlay 40mm - 0/2.350km															0			
14	Overlay 80mm - 4.987/5.000km															0			
15	Overlay 120mm - 3.250/0.800km															0			
16	<b>Reconstruction -14,186/9,909km</b>															0			
17	Site Clearing and Grubbing - (57/66.4Ha) <b>9.106km/11.614km</b>															30			
18	Bulk earthworks - road embankment - (317732/178332m3) <b>9.106km/11.614km</b>															30			
19	Milling/Removing of existing asphalt pavement - (8000/11625m3) <b>9.106km/11.614km</b>															25			
20	Removing sub base material - (22500/23500m3) <b>9.106km/11.614km</b>															0			
21	Formation level - (33842/105746m2) <b>9.106km/11.614km</b>															20			
22	Granular Capping layer - (350mm-42049/65617m3) <b>9.106km/11.614km</b>															10			
23	Granular Sub base layer -((225mm-18890/40785m3),(200mm-14250/0m3)) <b>9.106km/11.614km</b>															0			
24	Bituminous base course - 175mm - (91974/11461m2) <b>9.106km/11.614km</b>															0			
25	Wearing course - 50mm - (90315/112254m2) <b>9.106km/11.614km</b>															0			
26	Granular shoulder - 225mm - (11168/13015m3) <b>9.106km/11.614km</b>															0			
27	<b>Realignment -4,149km/0</b>															0			
28	Site Clearing and Grubbing - (10/7.1Ha) <b>1.657km/1.236km</b>															0			
29	Bulk earthworks - road embankment - (57818/18978m3) <b>1.657km/1.236km</b>															0			
30	Formation level -( 6158/11254m2) <b>1.657km/1.236km</b>															0			

31	Granular Capping layer - (350mm-7651/6983m3) 1.657km/1.236km	0
32	Granular Sub base layer - 225mm - (6030/4340m3) 1.657km/1.236km	0
33	Bituminous base course - 175mm - (16736/12139m2) 1.657km/1.236km	0
34	Wearing course - 50mm - (16435/11946m2) 1.657km/1.236km	0
35	Granular shoulder - 225mm - (2032/1385m3) 1.657km/1.236km	0
36	<b>Structures - Bridges (7, culverts (103)</b>	0
37	Bridge - Bridges new(6), rehab.(1) Work is going 2(new)	40
38	Culverts - 48/55num Work is going on 34 culverts	30
39	<b>Finishing off the Project - 40km</b>	0
40	Road signs and marking - 40km	0
41	Site drains	0

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

### A.2.3.3.3. Project progress summary

Estimated delay is about 63 days.

#### A.2.3.3.3.1. Works Progress on structures

##### A.2.3.3.3.1.1. Progress on culverts

Table 7

Item	Num	Exist	Location	Type	Size	Checked	Start	End	Action
1	1	yes	0+021	pipe	1250	Yes			Replace
2	2	yes	0+027	pipe	1250	Yes			Replace
1n	3	yes	0+370	pipe	1000	yes			Rehabilitate
2e	4	yes	0+789	pipe	1000	Yes			Rehabilitate
3e	5	yes	1+429	pipe	1000	Yes			Rehabilitate
4e	6	yes	3+117	pipe	1000	Yes			Rehabilitate
5e	7	yes	3+451	pipe	1000	Yes			Rehabilitate
6e	8	yes	3+799	pipe	1000	Yes			Rehabilitate
7n	9	no	4+070	pipe	3x1250	no			New
8e	10	yes	4+410	pipe	1000	Yes			Rehabilitate
9n	11	no	4+503	pipe	2x1250	no			New
10e	12	yes	5+103	pipe	1000	Yes			Rehabilitate
11e	13	yes	5+875	pipe	2,5x2,0	Yes			Replace
12n	14	no	5+889	pipe	1250	no			New
13e	15	yes	6+348	pipe	1000	Yes			Rehabilitate
14e	16	yes	6+650	pipe	1000	Yes			Rehabilitate
15e	17	yes	7+247	pipe	1000	Yes			Rehabilitate
16n	18	no	7+405	pipe	3x1250	no			New
3	19	yes	7+690	pipe	1000	Yes			Rehabilitate
17n	20	no	7+780	pipe	3x1250	no			New
18e	21	yes	7+964	pipe	1000	Yes			Rehabilitate
19e	22	yes	8+182	pipe	1000	Yes			Rehabilitate
20n	23	no	8+415	pipe	1250	no			New
4	24	yes	8+582	pipe	1000	Yes			Rehabilitate
21e	25	yes	8+948	pipe	1200	Yes			Rehabilitate
22e	26	yes	9+721	pipe	1000	Yes			Rehabilitate
23n	27	yes	9+523	pipe	1000	yes			Rehabilitate
24e	28	yes	11+070	pipe	1000	Yes			Replace
25e	29	yes	11+106	box	2,0x2,0	Yes			Replace
26e	30	yes	11+246	pipe	1000	Yes			Rehabilitate
5	31	yes	11+326	pipe	1000	Yes			Rehabilitate
27n	32	no	11+563	pipe	3x1250	no			New
6	33	yes	12+063	pipe	1000	Yes			Rehabilitate
28e	34	yes	12+738	pipe	1000	Yes			Rehabilitate
29e	35	yes	13+169	pipe	1000	Yes			Rehabilitate
30n	36	no	13+230	pipe	1250	no			New



31e	37	yes	13+368	pipe	1000	Yes			Rehabilitate
32e	38	yes	13+947	pipe	1500	Yes			Rehabilitate
33n	39	no	14+015	pipe	3x1250	no			New
34e	40	yes	14+737	pipe	1000	Yes			Replace
7	41	yes	14+837	pipe	1000	Yes			Rehabilitate
35e	42	yes	15+151	pipe	1000	Yes			Rehabilitate
36n	43	no	15+421	box	4,0x2,5	no			New
37e	44	yes	15+883	pipe	1000	Yes			Rehabilitate
38e	45	yes	15+965	pipe	1000	yes	05/07/2004		Rehabilitate
8	46	yes	16+365	pipe	1000	Yes	05/07/2004		Rehabilitate
39n	47	no	16+788	box	3,0x2,5	no			New
40n	48	yes	17+318	pipe	1250	yes			Replace
41n	49	yes	17+347	box	2,0x2,0	yes			Replace
42n	50	yes	17+429	pipe	1250	yes			Replace
43e	51	yes	17+731	box	2000*2000	Yes	09/07/2004		Rehabilitate
44e	52	yes	18+141	pipe	1000	Yes			Replace
45e	53	yes	18+409	pipe	1000	Yes	09/07/2004		Rehabilitate
46n	54	no	18+460	box	3,0x2,5	no			New
47e	55	yes	18+609	pipe	1000	Yes			Replace
48e	56	yes	18+797	pipe	1000	Yes	09/07/2004		Rehabilitate
9	57	yes	19+797	pipe	1250	Yes			Replace
49e	58	yes	20+988	pipe	1000	Yes			Replace
50e	59	yes	21+074	pipe	1000	Yes			Rehabilitate
51e	60	yes	21+158	pipe	1000	Yes			Rehabilitate
52e	61	yes	21+333	pipe	1000	Yes			Rehabilitate
53e	62	yes	21+693	pipe	1000	Yes			Rehabilitate
10	63	yes	21+893	box	2000*1000	Yes			deleted
54e	64	yes	22+136	pipe	1000	Yes	09/07/2004		Rehabilitate
55e	65	yes	22+148	pipe	1000	Yes	09/07/2004		Rehabilitate
56e	66	yes	22+379	pipe	1000	Yes	09/07/2004		Rehabilitate
57n	67	yes	22+624	pipe	1250	yes			Replace
11	68	no	22+926	pipe	1250	Yes			Replace
58e	69	yes	23+359	pipe	1250	Yes			Replace
59e	70	yes	23+948	pipe	1000	Yes			Replace
60e	71	yes	24+024	pipe	1000	Yes			Replace
61e	72	yes	24+521	pipe	1500	Yes			Rehabilitate
62e	73	yes	24+687	pipe	1000	Yes			Rehabilitate
12	74	no	24+887	pipe	1000	Yes	09/07/2004		Rehabilitate
63e	75	yes	25+113	pipe	1000	Yes	28/06/2004		Rehabilitate
64n	76	no	25+688	pipe	4,0x2,5	no			New
65e	77	yes	25+721	pipe	1000	Yes	28/06/2004		Rehabilitate
66e	78	yes	26+149	pipe	1000	Yes			Replace
13	79	yes	26+449	pipe	1000	Yes			Replace
67e	80	yes	26+742	pipe	1000	Yes			Replace
68e	81	yes	27+020	pipe	1000	Yes	23/09/2004		Replace
69e	82	yes	27+123	pipe	1250	Yes			Replace
70e	83	yes	27+543	box	2,0x2,0	Yes			deleted
71e	84	yes	27+643	pipe	2(2200x2200)	Yes			Replace
14	85	yes	27+743	pipe	1200	Yes			deleted
72e	86	yes	27+944	pipe	1000	Yes	28/06/2004		Rehabilitate
73e	87	yes	28+050	pipe	1000	Yes			Replace
15	88	yes	28+200	pipe	1000	Yes	06/07/2004		Rehabilitate
74e	89	yes	28+477	pipe	1000	Yes	16/09/2004		Replace
75n	90	no	28+580	pipe	1250	no			New
76e	91	yes	28+620	pipe	1000	Yes	16/09/2004		Replace
77e	92	yes	28+790	pipe	1000	Yes			Replace
78e	93	yes	28+999	pipe	1000	Yes	28/06/2004		Rehabilitate
79e	94	yes	29+399	pipe	2200	Yes			Replace
80e	95	yes	29+461	pipe	1000	Yes			Replace
16	96	no	29+561	pipe	1000	Yes			Replace
81e	97	yes	29+952	pipe	1000	Yes	28/06/2004		Rehabilitate
82n	98	no	30+080	pipe	1250	no			New
17	99	yes	30+300	pipe	1000	Yes			Replace
83n	100	no	30+538	pipe	1000	no			New
84e	101	yes	30+892	pipe	1000	Yes	21/11/2004		Replace
85e	102	yes	31+154	pipe	1000	Yes	17/10/2004	07/11/2004	Replace



86e	103	yes	31+515	pipe	1250	Yes	25/08/2004	15/11/2004	Replace
18	104	yes	31+615	pipe	1000	Yes	28/06/2004	05/11/2004	Replace
87e	105	yes	31+962	pipe	1000	Yes	04/10/2004	23/10/2004	Replace
88e	106	yes	32+096	pipe	2x1250	Yes	09/11/2004	20/11/2004	Replace
89e	107	yes	32+611	pipe	1000	Yes	06/07/2004	05/11/2004	Replace
90e	108	yes	32+876	pipe	1000	Yes	04/10/2004	22/10/2004	Replace
91e	109	yes	33+096	pipe	1000	Yes	28/06/2004	10/11/2004	Replace
92e	110	yes	33+352	pipe	1000	Yes	05/10/2004	20/10/2004	Replace
93e	111	yes	33+650	pipe	2x1250	Yes	13/11/2004		Replace
94e	112	yes	33+832	pipe	600	Yes	03/11/2004		Replace
95e	113	yes	34+073	pipe	1000	Yes	28/06/2004		Rehabilitate
96e	114	yes	34+379	pipe	2x1250	Yes			Replace
97n	115	no	34+400	pipe	2x1250	no			deleted
98e	116	yes	35+076	pipe	600	Yes			Replace
99e	117	yes	35+533	pipe	1000	Yes	23/08/2004		Rehabilitate
100n	118	no	35+770	pipe	2x1250	no			New
101n	119	no	36+100	pipe	2x1250	no			deleted
102e	120	yes	36+211	pipe	1250	Yes			Replace
19	121	yes	36+361	pipe	1000	Yes			Rehabilitate
103e	122	yes	36+585	pipe	1000	Yes			Rehabilitate
104n	123	yes	38+575	pipe	1250	yes			Replace
105e	124	yes	38+591	box	2,0x2,0	Yes			Rehabilitate
20	125	yes	38+796	pipe	1000	Yes			Replace
106e	126	yes	39+377	pipe	1250	Yes			Replace

### A.2.3.3.3.1.2. Progress on bridges

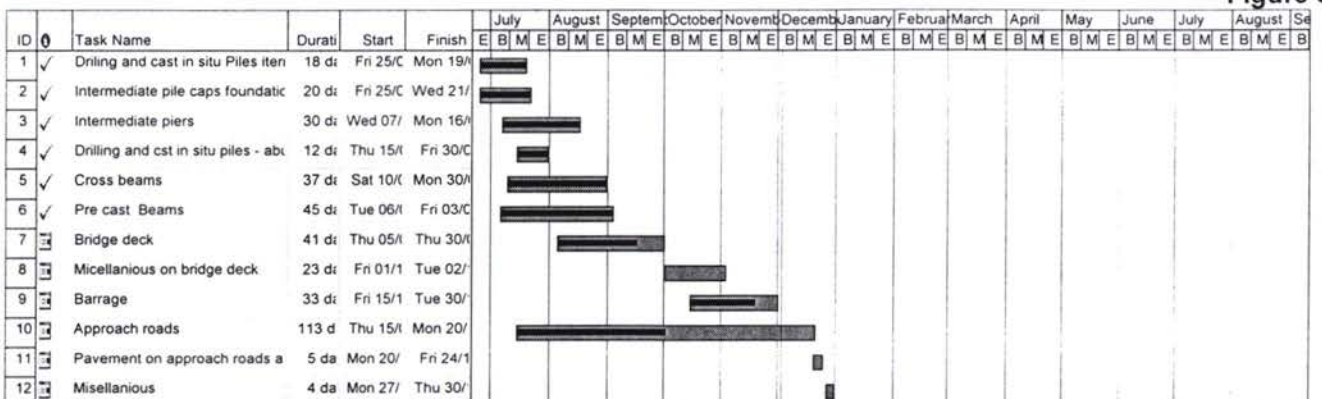
#### A.2.3.3.3.1.2.1. General on bridge structures

Table 8

Bridge No	Chainage where the to be build	Description of the existing structure	Existing (meter)	Carriage way	Action proposed by our design tender review done August 2003	Description according to the project (meter)	Size According to the project	Carriage way
36	2+310	3*14.0	48	7	Replace/New	12+21+12	54.3	11.5
37	3+076	1*22.16	28	7	Replace/New	1*22.16	36.21	11.5
38	5+597	1*13.50	14.6	7	Repair	1*18.0	18.9	11.5
39	20+168	3*22.16	82.48	7	New	5*18.0	90.0	11.5
40	27+997	4.4*5.0 B	9.4	7	Box culvert	5.0*2.5 B	23.5	9
41	34+870	1*22.16	23.06	7	Repair	1*22.16	23.06	11.5
42	37+539	6*22.16	138.96	8.9	Repair	6*22.16	138.96	10

#### A.2.3.3.3.1.2.2. Bridge 39

Figure 3





#### A.2.3.3.3.1.2.3. Bridge 41

The Contractor start Works and presently all piles are driven and concreted, abutment cross beams are in place and intermediate support pre cast elements are on site ready for positioning.

#### A.2.3.3.3.2. Problems which might effect the completion date

Table 9

<b>Problems associated with completing the Contract in time</b>	<b>Actions taken</b>
Early warnings – clause 32, Conditions of Contract – existing buildings along the road, narrow road within the urban locations and our proposal to original pavement urban design	Comprehensive study done by us and sent for Client's consideration and instructions
Most of existing culverts are badly displaced and rehabilitation works recommended shall not improved the present structures situation, thereafter replacement required	Client's instruction is to replaced all culverts where repair works been required
Contractor completes the longitudinal redesign and Client been furnished with their copy for approval. Contractor is behind on bridge design	The Client to issue approval. Contractor to make drawings
Relocation of services did not start yet. Contractor having problems to obtain cost and shop drawings for relocation	The Contractor urge to supply as soon as possible cost
Existing road sub grade is a blackish soil which as a material tested in lab just pass the low Specification limits but with a bit of extra water make the material collapsing in a rubber kind of mass exceptionally plastic and non compactable	Client observe the problem during the site visit end of November 2004
Volumes of unsuitable soil is extremely underestimated in the original B&Q and as a result have to be expected that final volumes shall exceed few time	Client worn during the site visit Nov 2004

#### A.2.3.4. Claims and Variations

##### A.2.3.4.1. Claims

##### A.2.3.4.1.1. Claim №1 – Late advance payment

First Contractor's claim has been received - Requested Advance payment of 20% has been delayed and Contractor has claimed (see Contractor's letter 248 dated May 11th, 2004 and Consultant letter to the MoT P170 dated 11 May 2004) in accordance to the Conditions of Contract, clause 44, sub-clause 44.1(i) the delay of advance payment is a compensation event. This includes compensation on both additional cost (clause 44.2) and extension of time due to a compensation event (clause 28.1). Further the Contractor refers to Clause 43 (Payment), sub-clause 43.1, and claimed interest on late payments. The claim is under PM's consideration and attention.

##### A2.3.4.1.2. Claim №2 – Late payment of Azeri part of advance payment

Second Contractor's claim has been received - Requested Advance payment of 20% has been paid partially and Contractor has claimed in accordance to the Conditions of Contract, clause 44, sub-clause 44.1(i) the delay of advance payment is a compensation event. This includes compensation on both additional cost (clause 44.2) and extension of time due to a compensation event (clause 28.1). Further the Contractor has referred to Clause 43 (Payment), sub-clause 43.1, and claimed interest rate on late payments. The Claim is under PM's consideration and attention.

##### A.2.3.4.2. Variations

##### A.2.3.4.2.1. Variation order №1

For the amount of 131,907,737.85 AZM, new beginning of Contract CW2003-1 – On Client's instruction, 60m' a part of Contract 2002-1 are to be added, in order to have existing ring cross road in one Contract (Contract CW2003-1). Variation Order approved and submitted to the Contractor.

##### A2.3.4.2. Variation Order №2

Bridge №39 at km 411+143 (new construction has been proposed instead of rehabilitation).

The first intermediate foundation support at Baku site has collapsed. The reason for collapsing is that the river bed at that location has been eroded and the foundation left on air unsupported. Originally, this bridge is to be rehabilitated but due to the actual situation of the bridge, a new construction is required.

Drawings received from the Contractor and submitted to the Employer on 08 July 2004 for approval. This VO would be finalized after receiving breakdown for new items from the Contractor.

#### A.2.3.4.2.3. Variation order №3

Under preparation - On Client instruction, Works on Contract CW2003-2 km 37+700 to km 40+000 are to be stopped due to potential planned construction of Tovuz bypass.

This VO-3 would be finalized after agreement between the Employer and the WB if Tovuz bypass would be constructed and after Employer instruction about the Works to be done between km 37+700 – km 40+000.

#### A.2.3.5. Financial

##### A.2.3.5.1. Interim Payment Certificates to date

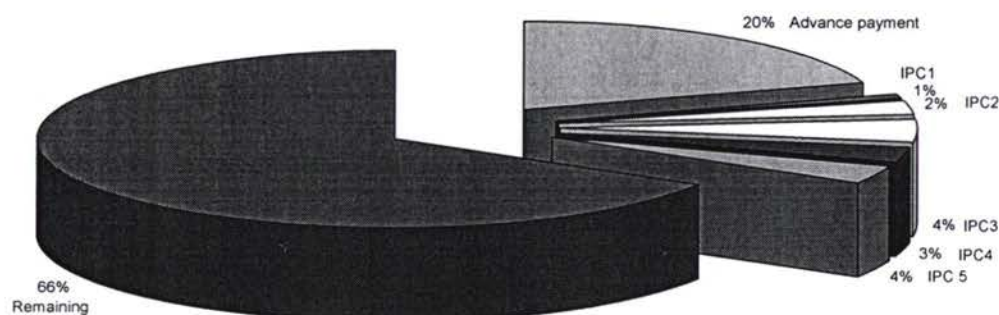
Table 10

Item	Date	IPC	Value AZM	%	Status
1	30/05/04	Advance	12,016,452,848.20	19.96%	paid
2	15/07/04	IPC1	603,439,200.00	1.00%	paid
3	30/07/04	IPC2	1,491,459,373.00	2.48%	paid
4	30/08/04	IPC3	2,455,375,624.00	4.08%	paid
5	30/09/04	IPC4	1,604,595,238.50	2.66%	not yet
6	30/10/04	IPC5	2,119,918,488.00	3.52%	not yet
		To date	20,291,240,771.70	33.70%	Not fully
		Available	39,922,930,607.15	66.30%	Remained
		Contract price	60,214,171,378.85	100.00%	

The IPC 6 has not been entered yet at the time of preparation of the Report.

Figure 4

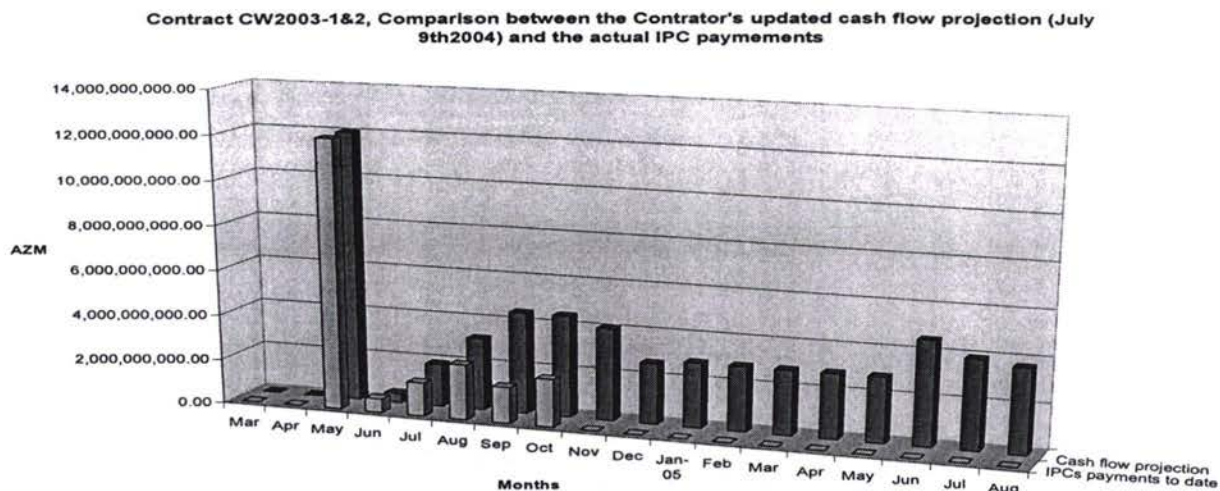
Contracts CW2003-1 & 2, Payments to date and the remaining value of Works



##### A.2.3.5.2. Cash Flow projection



Figure 5



**A.2.3.6. Testing results**

Table 11

Description of Work		Test Performed				Remarks
		Total	Passed	Retested	% Passed	
<b>Road Embankment</b>						
1	FDT/Nuclear Density	372	250	122	67.2	
2	PI	2	0	2	0	
3	MDD/Proctor	2	0	2	0	
4	CBR	2	0	2	0	
5	Moisture Content	2	0	2	0	
<b>Granular capping layer or selected sub grade fill- 1 (175mm of 350mm)</b>						
1	Gradation	1	1	0	100	
2	FDT/Nuclear Density	7	4	3	57.1	
3	MDD/Proctor	1	1	0	100	
4	PI	1	1	0	100	
5	CBR	1	1	0	100	
6	Moisture Content	1	1	0	100	
<b>Granular capping layer or selected sub grade fill- 2 (175mm of 350mm)</b>						
1	Gradation	1	1	0	100	
2	FDT/Nuclear Density	6	4	2	66.7	
3	MDD/Proctor	1	1	0	100	
4	PI	1	1	0	100	
5	CBR	1	1	0	100	
6	Moisture Content	1	1	0	100	
<b>Granular sub base layer (from recycled asphalt concrete and recycled sub base material) 225mm</b>						
1	Gradation (Combined)	1	1	0	100	
2	FDT/Nuclear Density	0	0	0	0	
3	MDD/Proctor	1	1	0	100	
4	LAA	1	1	0	100	
5	Sp. Gravity	0	0	0	0	
6	Water Absorption	0	0	0	0	
7	Moisture Content	1	1	0	100	
8	CBR	1	1	0	100	
9	PI	1	1	0	100	
<b>Concrete Works</b>						
1	Compression Test	77	77	0	100	
2	Slump	42	42	0	100	
3	Gradation	1	1	0	100	
4	LAA	1	1	0	100	
5	Soundness	0	0	0	0	
6	Sp. Gravity	2	2	0	100	
7	Flakiness Index	1	1	0	100	

8	Sand equivalent	1	1	0	100
9	Unit Weight	77	77	0	100

### A.2.3.7. Correspondence records

#### A.2.3.7.1. Incoming Letters

Table 12

Item	Date Received	Autho from	Sender ref	Date on the Letter	In resp to	Subject	Attac	Replay status		
								Requir Yes/No	Date Sent	Our Ref.
1	02/11/2004	G.S	150-D	02/11/2004	N/A	Organogramme For Azer-Azw	yes	yes	03/11/2004	196
2	02/11/2004	G.S	151-D	02/11/2004	N/A	Casting Shedule	yes	yes	03/11/2004	197
3	02/11/2004	G.S	152-D	02/11/2004	N/A	Cross-section	yes	yes	03/11/2004	187
4	04/11/2004	G.S	153-D	04/11/2004	N/A	Shop Drawings of Pipes	yes	yes	08/11/2004	204
5	08/11/2004	E.I	517	04/11/2004	N/A	Contract CW-2003 and CW-2004	yes	yes	08/11/2004	205
6	08/11/2004	G.S	154-D	08/11/2004	N/A	Existing cross section	yes	yes	24/11/2004	214
7	08/11/2004	G.S	155-D	08/11/2004	N/A	Design drawings of bridge No 40	yes	yes	09/11/2004	211
8	09/11/2004	G.S	156-D	09/11/2004	N/A	Design Project of section KM 6+000-12+000	yes	yes	24/11/2004	215
9	12/11/2004	G.S	157-D	12/11/2004	N/A	Manufacture certificates	yes	yes	24/11/2004	216
10	12/11/2004	G.S	158-D	12/11/2004	N/A	Manufacture certificates	yes	yes	12/11/2004	217
11	12/11/2004	G.S	159-D	12/11/2004	N/A	Price analysis	yes	yes	24/11/2004	223
12	12/11/2004	G.S	160-D	12/11/2004	N/A	Payment Cedrtificate N5 for CW 2003-1,CW2003-2	yes	yes	17/11/2004	212
13	13/11/2004	G.S	161-D	13/11/2004	N/A	Design drawings	no	yes	24/11/2004	218
14	15/11/2004	G.S	162-D	15/11/2004	N/A	Labor drawings and Priced Bill of Quantities for bridge N36,N38	yes	yes	2004-24.11.04	213-224
15	15/11/2004	G.S	163-D	14/11/2004	N/A	Existing ground elevation	yes	yes		
16	15/11/2004	G.S	164-D	14/11/2004	N/A	Updated Price Analysis	yes	yes	24/11/2004	223
17	17/11/2004	G.S	165-D	17/11/2004	N/A	Shop Drawings of Pipes	yes	yes	24/11/2004	219
18	18/11/2004	G.S	166-D	18/11/2004	N/A	Following manufacture certificates	yes	yes	24/11/2004	220
19	18/11/2004	G.S	167-D	18/11/2004	N/A	Table concreting of steel-concret structure	yes	yes	24/11/2004	221
20	19/11/2004	G.S	168-D	19/11/2004	N/A	Existing embankment under the formation level	yes	yes		
21	19/11/2004	G.S	169-D	19/11/2004	N/A	Certificate of ROCH	yes	yes		
22	23/11/2004	G.S	171-D	22/11/2004	N/A	Additional laboratory test	no	yes	24/11/2004	222
23	22/11/2004	G.S	172-D	22/11/2004	N/A	Manufacture certificates	yes	yes		
24	24/11/2004	G.S	175-D	24/11/2004	N/A	Existing cross section for km 12+000-19+500	yes	yes		
25	24/11/2004	G.S	176-D	24/11/2004	N/A	Table concreting of steel-concret structure	yes	yes		
26	24/11/2004	G.S	177-D	24/11/2004	N/A	Table of the information about communication line	yes	yes		
27	24/11/2004	G.S	178-D	24/11/2004	N/A	Formation level	yes	yes		
28	29/11/2004	G.S	179-D	26/11/2004	N/A	List of staff	yes	yes		
29	29/11/2004	G.S	180-D	26/11/2004	N/A	transver of decision	no	yes		
30	26/11/2004	G.S	181-D	26/11/2004	N/A	Cost of the equipment No 40	no	yes		
31	26/11/2004	G.S	182-D	26/11/2004	N/A	Shop Drawings of Pipes	yes	yes		
32	26/11/2004	G.S	183-D	26/11/2004	N/A	Cross-section for Km 36+200-37+700	yes	yes		
33	29/11/2004	G.S	184-D	29/11/2004	N/A	Pipe culverts Km 29+405(d=2x1.25m) and Km 29+952(d=1.0m)	yes	yes		
34	29/11/2004	G.P	540	23/11/2004	N/A	Price analysis	yes	yes		
35	29/11/2004	N.A	547	25/11/2004	N/A	Bill Quantity No 38	yes	yes		
36	29/11/2004	N.A	548	25/11/2004	N/A	Bill Quantity No 39 and No 41	yes	yes		
37	29/11/2004	N.A	549	25/11/2004	N/A	Bill Quantity No 36	yes	yes		



### A.2.3.7.2. Outgoing letters

Table 13

Item	Date Posted	Autho initials	Our re Written	Date Written	In response to	Subject	Replay status			
							Attac ment	Require Yes/No	Date Sent	Sender's Ref.
1	03/11/2004	S.D	172	01/11/2004	137/19.10.04	Letter 137-D	yes	no		
2	02/11/2004	S.D	173	01/11/2004	N/A	Project Managers office and house staff accomodation	no	yes		
3	03/11/2004	S.D	174	01/11/2004	N/A	Culverts (km 15+965 to km 35+533)-progress of Works	no	yes		
4	02/11/2004	S.D	175	01/11/2004	N/A	Bridge 41-Details Works Programme	no	yes		
5	03/11/2004	S.D	176	01/11/2004	146/27.10.04	Letter 146-D	no	yes		
6	03/11/2004	S.D	177	01/11/2004	N/A	Request for inspections	no	yes		
7	02/11/2004	S.D	178	02/11/2004	479/29.09.04	Letter 479	yes	yes		
8	02/11/2004	S.D	179	02/11/2004	145/26.10.04	Letter 145-D	no	no		
9	02/11/2004	S.D	180	02/11/2004	134/18.10.04	Letter 134-D	no	no		
10	02/11/2004	S.D	181	02/11/2004	132/16.10.04	Letter 132-D	no	no		
11	02/11/2004	S.D	182	02/11/2004	145/26.10.04	Letter 145-D	no	no		
12	02/11/2004	S.D	183	02/11/2004	141/23.10.04	Letter 141-D	no	no		
13	02/11/2004	S.D	184	02/11/2004	147/27.10.04	Letter 147-D	no	yes		
14	02/11/2004	S.D	185	02/11/2004	129/11.10.04	Letter 129-D	no	yes		
15	08/11/2004	S.D	186	03/11/2004	486/12.10.04	Letter 486	no	no		
16	04/11/2004	S.D	187	03/11/2004	507/29.10.04, 152/02.11.04	Letter 507,152	no	no		
17	04/11/2004	S.D	188	03/11/2004	N/A	Fax dated 22.09.04-CV for Mr.A.Huseynov	no	yes		
18	04/11/2004	S.D	189	03/11/2004	133/18.10.04	Letter 133-D	no	no		
19	04/11/2004	S.D	190	03/11/2004	135/18.10.04	Letter 135-D	no	no		
20	04/11/2004	S.D	191	03/11/2004	136/18.10.04	Letter 136-D	no	no		
21	08/11/2004	S.D	192	03/11/2004	138/22.10.04	Letter 138-D	no	yes		
22	04/11/2004	S.D	193	03/11/2004	140/22.10.04	Letter140-D	no	no		
23	08/11/2004	S.D	194	03/11/2004	142/23.10.04	Letter 142-D	no	yes		
24	04/11/2004	S.D	195	03/11/2004	148/28.10.04	Letter 148-D	no	no		
25	04/11/2004	S.D	196	03/11/2004	150/02.11.04	Letter 150-D	no	no		
26	04/11/2004	S.D	197	03/11/2004	151/02.11.04	Letter 151-D	no	no		
27	08/11/2004	S.D	198	03/11/2004	506/29.10.04-435/02.09.04	Letter 506,435	no	no		
28	04/11/2004	S.D	199	03/11/2004	125/29.09.04	Letter 125-D	no	yes		
29	12/11/2004	S.D	200	08/11/2004	N/A	Slow progress of Works	no	yes		
30	12/11/2004	S.D	201	08/11/2004	144/25.11.04	Letter 144-D	no	yes		
31	12/11/2004	S.D	202	08/11/2004	143/24.10.04	Letter 143-D	no	yes		
32	09/11/2004	S.D	203	08/11/2004	149/29.10.04	Letter 149-D	no	no		
33	09/11/2004	S.D	204	08/11/2004	153/04.11.04	Letter 153-D	no	no		
34	09/11/2004	S.D	205	08/11/2004	517/04.11.04	Letter 517	no	no		
35	09/11/2004	S.D	206	08/11/2004	480/04.10.04	Letter 480	no	yes		
36	13/11/2004	S.D	207	09/11/2004	N/A	Monthly Progress Minutes of Meeting October 2004	yes	no		
37	12/11/2004	S.D	208	09/11/2004	N/A	Bridge 39-slow progress of Works	no	yes		
38	12/11/2004	S.D	209	09/11/2004	N/A	Bridge 36-Revised Bill of Quantities	no	yes		
39	12/11/2004	S.D	210	09/11/2004	N/A	Mobilization of balance on site	no	yes		
40	13/11/2004	S.D	211	09/11/2004	155/08.11.04	Letter 155-D	no	no		
41	17/11/2004	S.D	212	17/11/2004	160/12.11.04	Letter160-D	no	no		
42	18/11/2004	S.D	213	17/11/2004	162/15.11.04	Letter 162-D	no	yes		
43	25/11/2004	S.D	214	24/11/2004	154/08.11.04	Letter 154-D	no	no		
44	26/11/2004	S.D	215	24/11/2004	156/09.11.04	Letter 215-D	no	no		
45	25/11/2004	S.D	216	24/11/2004	157/12.11.04	Letter 157-D	no	no		
46	25/11/2004	S.D	217	24/01/2004	158/12.11.04	Letter 158-D	no	no		
47	26/11/2004	S.D	218	24/11/2004	161/13.11.04	Letter 161-D	no	yes		
48	25/11/2004	S.D	219	24/11/2004	165/17.11.04	Letter 165-D	no	no		
49	25/11/2004	S.D	220	24/11/2004	166/18.11.04	Letter 166-D	no	no		
50	25/11/2004	S.D	221	24/11/2004	167/18.11.04	Letter 167-D	no	no		
51	26/11/2004	S.D	222	24/11/2004	171/22.11.04	Letter 171-D	no	no		
52	26/11/2004	S.D	223	24/11/2004	159/12.11.04 164/22.11.04	Letter 159-D/164-D	no	no		
53	29/11/2004	S.D	224	24/11/2004	162/15.11.04	Letter 162-D	no	yes		
54	25/11/2004	S.D	225	24/11/2004	N/A	Intermediate Minutes of Meeting 16.11.04	no	no		
55	29/11/2004	S.D	226	24/11/2004	N/A	Item 127-Project Specification	no	no		

#### **A.2.3.8. Project progress photos**

- Proof rolling over sections done with material taken out of the existing embankment as per the recommendations given in the original design– during RTSD representative's site visit

- Contractor fixing embankment layers where ever existing material (under A/C) in situ been used - after rain

- Sections done with the existing material in situ after removing the A/C layer as recommended by the original Design

- Bridge 41 – works in progress

- Bridge 39 – works in progress

*Photos have been taken out from the Report and would be sent if requested.*

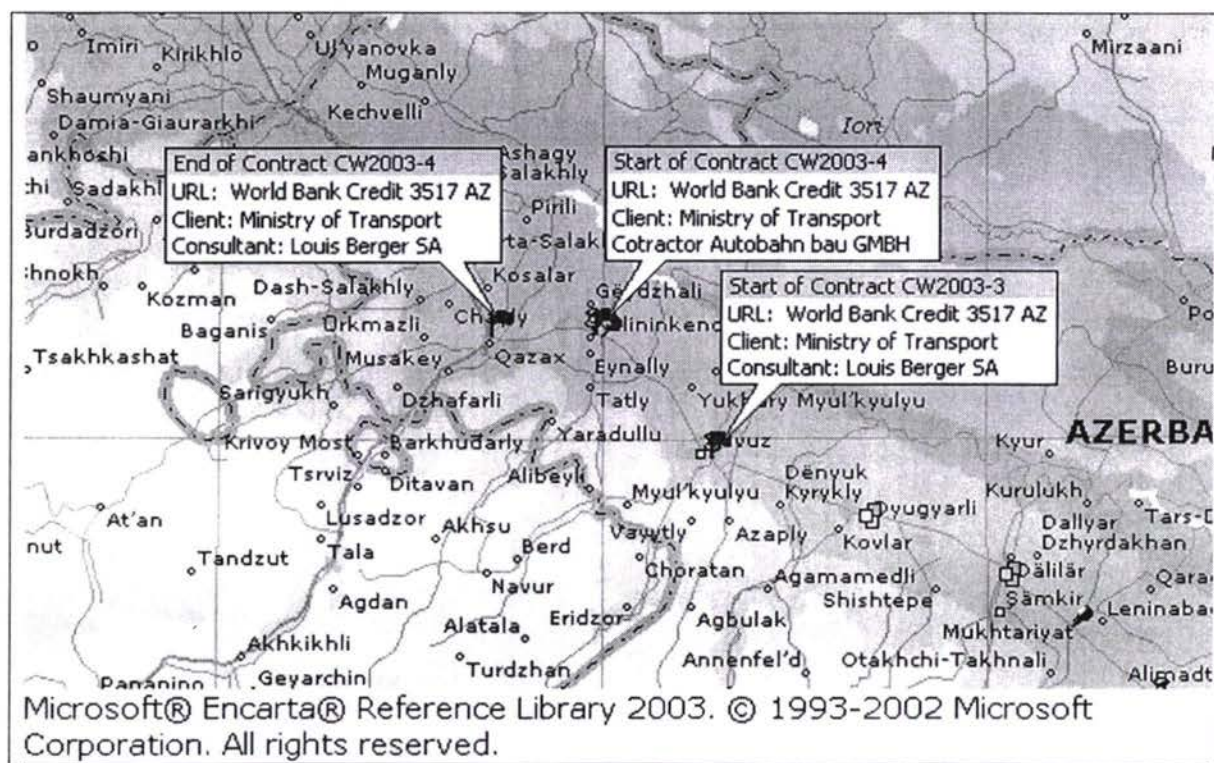


# Rehabilitation of Caucasian Highways Azerbaijan Monthly Technical report

Segment 2 for Project Component II:

Construction Supervision of Shemkir to Gazakh - Highway

Contracts CW2003-3 and CW2003-4



**B. Contracts CW2003-3 and CW2003-4**

**B.2.1. Report Cover page**

**Table 1**

<b>Project Title</b>	<b>Construction Supervision of Shemkir to Gazakh - Highway - Contracts CW2003-3 and CW2003-4</b>	
<b>Service Contract</b>	EUROPEAID/113179/C/SV/MULTI	
<b>Country</b>	Azerbaijan	
	<b>Local Recipient - Partner</b>	<b>EC Service Contractor</b>
<b>Name</b>	Azerbaijan Republic Ministry of Transport	Louis Berger SA
<b>Address</b>	The Head of Road Transport Service Department Prospect Tbilisi 1054 The Ministry of Transport	Mercure III 55 Bis Quai de Grenelle 75015 Paris France
<b>Tel No</b>	99412 4930192	+ 33 1 45 78 39 32
<b>Fax No</b>	99412 4315655	+ 33 1 45 77 74 69
<b>Contact Person</b>	Mr. Javid G. Gurbanov	Mr. F. Signor
<b>E-mail</b>		fsignor@louisberger.com
		Project Team Leader
		Baku, Azerbaijan
		+994 12 498 84 31
		+994 12 493 24 76
		R. Degheim

**B.2.2. Project Synopsis**

**Table 2**

<b>Project Objectives</b>	<ul style="list-style-type: none"> <li>To support the Republic of Azerbaijan to catch up with their serious backlog maintenance, and to cope with growing Local, and International Transport.</li> <li>To improve and provide a better level of service for the travelling public on route corridors,</li> <li>To reduce costs in road transportation,</li> <li>To arrest deterioration of pavements (<i>road surfaces</i>) by timely intervention,</li> <li>To reduce costs for road rehabilitation and maintenance.</li> <li>The specific objective of this component of the Project is the supervision of the Works Contracts between Shemkir and Gazakh. This forms part of the ancient "Silk Road"</li> <li>To ensure that the new road rehabilitation and reconstruction is completed to the internationally specified standards and to be completed within the budget and time Available.</li> <li>To strengthen the national road construction and maintenance capabilities through Transfer of technology.</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>Good Roads completed to best standards and at the budget price.</li> </ul>
<b>Activities</b>	<ul style="list-style-type: none"> <li>To rehabilitate and upgrade the existing highway Shemkir to Gazakh - Contracts CW2003-3 and CW2003-4</li> </ul>
<b>Start date</b>	<ul style="list-style-type: none"> <li>February 23<sup>rd</sup>2004</li> </ul>
<b>Start date activities</b>	<ul style="list-style-type: none"> <li>February 23<sup>rd</sup>2004</li> </ul>
<b>Duration</b>	<ul style="list-style-type: none"> <li>18 months or 548 days</li> </ul>

**B.2.3. Monthly Progress Report**

**B.2.3.1. General**

This section of the Project covers the supervision of the Rehabilitation and Upgrading of the Shemkir - Gazakh section of the Azerbaijan Highway Project Contracts CW2003-3 and CW2003-4. The project is organised in the standard International format using the General Conditions of Contract as issued by the World Bank for projects under \$10,000,000. The works were designed in coordination with Azeravtoyol by a consortium composed of Kocks Consult GMBH (Germany) BCEOM (France) and Finnroad Ltd (Finland). The supervision of the Works Contract forms part of the Rehabilitation of Caucasian Highways Azerbaijan Georgia and Armenia Contract



Number EUROPEAID/113179/C/SV/MULTI and is carried out by Louis Berger SA of Paris France. The project is funded by means of a credit from the International Development Association (IDA), or the World Bank. A Project Implementation Unit attached to RoadTransService controls the project on behalf of the Employer. A list of the Key Personal is presented below.

**Table 3**

<b>Funding Agent</b>	International Development Association The World Bank 1818 H Street, NW Washington, DC 20433, USA
Mr. Oliver Le Ber	Lead Transport Specialist Infrastructure and Sector Unit Europe and Central Asia Region
<b>Employer</b>	Azerbaijan Republic Ministry of Transport "Yolnegliyatservis" address: Prospect Tbilisi 10/54 The Ministry of Transport Tel:99412 4930192 Fax:99412 4315655
Mr. Cavid Gurbanov Gamber	Chief of the Department
<b>Project Implementation Unit</b>	72/4 Uzeyir Hajibeyov Street 370010 Baku
Mr A Gojayev	Director
<b>EUROPEAID EC Brussels</b>	
Mr. E Dalamangas	Project Manager
<b>Service Supervision Contractor</b>	
Louis Berger SA	Murcure III 55Bis Quai de Grenelle Paris 75015
R. Degheim	Team Leader / Project Manager
S. I. Dotchev	Project Manager's Representative, Resident Engineer
<b>Contractors</b>	Autobahn Bau GMBH

**B.3.3.2. Project Data**

**Table 4**

<b>Works Contracts CW2003-3 and CW2003-4</b>	
Works Tender Opened	September 2 <sup>nd</sup> 2003
Letter of Acceptance	December 27 <sup>th</sup> 2004
Contract Agreement Signed	January 22 <sup>nd</sup> 2004
Possession of site	February 5 <sup>th</sup> 2004
Contract Amount	AZM 45,937,384,407.14
Contract revised amount	N/A
Contract Start Date	February 23 <sup>rd</sup> 2004
Original Contract Completion Date	August 23 <sup>rd</sup> 2005
Defects Liability Period	365 days
Extended Completion Date	N/A
1 <sup>st</sup> , Works Programme received	March 1 <sup>st</sup> 2004
Last revision of Works Programme	July 2004
Value of Works to date as per IPC	4,803,136,605.40AZM
Value of Works done to date	5,971,859,972.92AZM
Value of Works done to date (%)	13%
Variations	N/A
Advance Payment (20%)	9,187,476,881.42 AZM
Repayments made	N/A
Delays	40 days (excluding delay of about 5 months for longitudinal redesign)
Claims	Claim №1 – Late advance payment, under PM consideration Claim №2 – Late payment on portion of Advance payment, under PM Consideration Claim №3 – Extension of time (10 months),KA/F-105/4 dated Sep 13 <sup>th</sup> 2004

Time elapsed to date	282 days
Time remaining to date	266 days

### B.2.3.3. Progress report

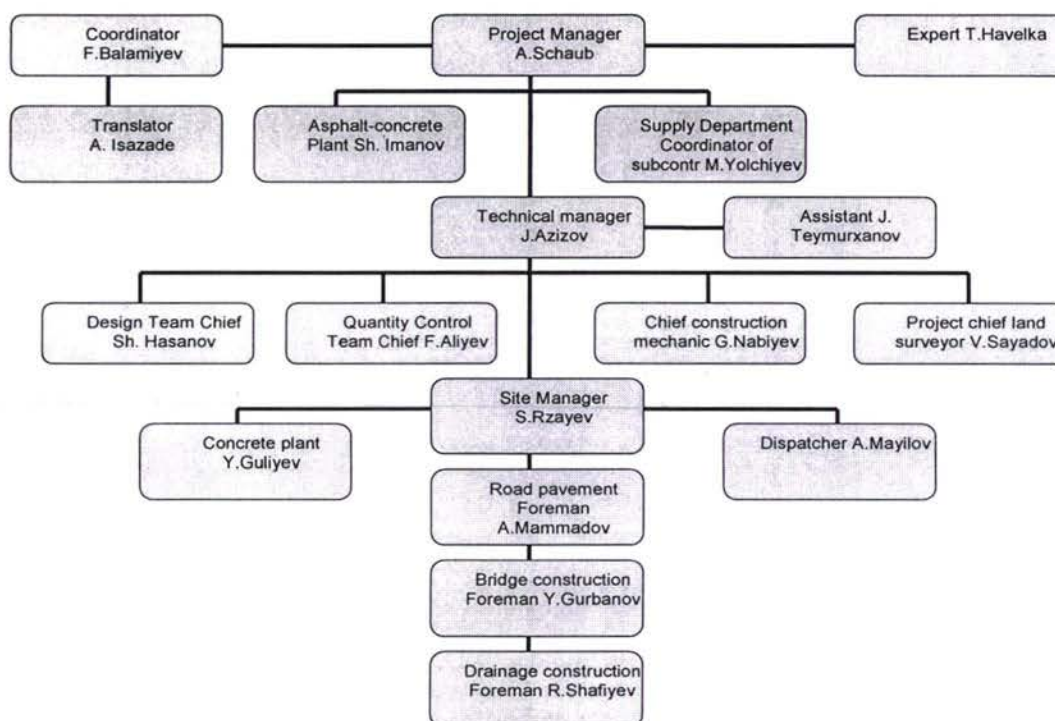
#### B.2.3.3.1. Status of the Contract

Since start (February 23<sup>rd</sup>2004) the Contractor have been on site 282 days or 51.46% of the Contractual time and to date are remaining 266 days or 48.54% of the Contractual time.

#### B.2.3.3.1.1. Contractor's site staff

##### B.2.3.3.1.1.1. Contractor's site management staff organisation (organogramme)

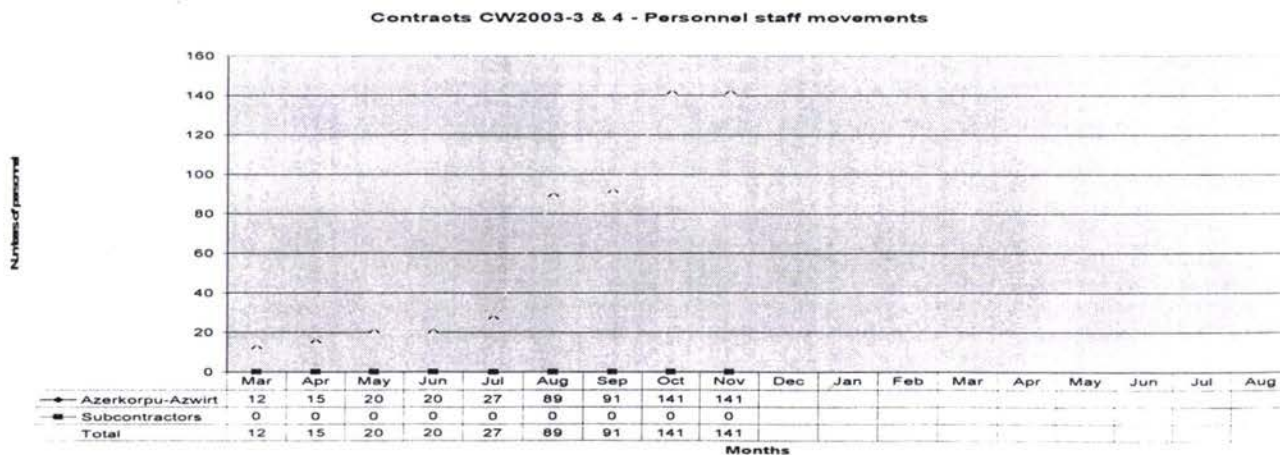
Figure 1



#### B.2.3.3.1.1.2. Contractor's site staff employed

This month Contractor have employed for purpose of construction on this Project 141 people

Figure 2





**B.2.3.3.1.2. Contractor's machinery and equipment**

**Table 5**

Item	Description	Model and capacity	Unit	For project	Available	Work day
1	Dumper truck	KAMAZ-18 items;KAMAZ-8/12t;(1996,1999)Super-40tMZKT65158-20t;SuperMaz-2items;MZKT65158-4 items	no	44	13	24
2	Bus	"Semar"-1997	no	2	1	25
3	Vibroroller	HAMM, Germany;Hamm, 180h/p	no	2	0	0
4	Excavator	Liebherr 0345; V-1m3 (1998) EO- 3322	no	2	7	25
5	Grader	DZ;DZ-122;DZ-98;100kw;(2000)	no	4	5	25
6	Loader	Liebherr L508;40KW(1995)	no	2	1	24
7	Lorry	KAMAZ5511;13t (1999)	no	20	12	26
8	Milling Machine	Wirtgen 2000 DC, Germany;(1993)	no	2	1	27
9	Crusher Plant	SBM 10/12/6 &10/6/6;220 t/h; 1993	no	2	0	0
10	Asphalt mix Plant	Wibau GmbH;W 200-5-5,Komm.	no	2	1	0
11	Vibrating plate	Bomag GmbH;AVP 29/20;Bomag(1999)	no	4	1	0
12	Bulldozer	CHTZ;DZ-170;150KW(2000)	no	2	2	24
13	Truck crane	2 items	no	4	4	25
14	Water carrier		no	0	4	25
15	Welding set		no	0	2	26
16	Generator		no	0	1	0
17	Drilling Rig		no	0	1	0
18	Asphalt Paver	Joseph Voegle AG;Voegle Super	no	2	0	0
19	Pneumatic roller	Bomag GmbH;BW 20R;M=1250kg(1995)	no	6	4	26
20	Cold milling Machine	Wirtgen GmbH;dc2000;h=0,3m;(1992)	no	2	1	0
21	Semi trailer low bed	Yalchin Dorse Damper San 7Tic.Ltd:	no	2	2	25
22	Concrete Mixer	Atika Ultra;Atika;(1998)	no	2	0	0
23	Concrete Mixer	Stroy mash;CB136A;(1999)	no	4	3	25
24	Bitumen Spreader	KAMAZ53213;(1999)-tank cap 13t.	no	2	0	0
25	Service van	Gazel;(1998)	no	2	2	26
26	Road roller	Bomag BW 161 AD(1998)	no	2	3	26
27	Compressor	Atlas Copso,Germany;(1998)	no	2	0	0
28	Hidrohammer	Krupp,Germany; (1998)	no	6	0	0
29	Testing bore	Germany (1998)	no	2	0	0
30	Surveyor - Zeiss Ni2	Germany, Zeiss Ni2, Rec-Elta/nivelir;(1998)	no	2	2	0
31	Loader	Kramer312 LEX, Germany;(1997)	no	2	1	24

**B.2.3.3.1.3. Contractor's Work programme**

The required by condition of Contract updated and revised Work Programme has not been forwarded yet. Contractor is busy verifying last estimated volumes of Works base on revised longitudinal redesign.

**B.2.3.3.2. Project activity to date**

**Table 6**

Item	Project activity to date																%		
	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25		20	15
1	Consultant's staff mobilization																100		
2	Project Manager's office accommodations																100		

3	Project Manager's house accommodations	100
4	Project Manager's vehicles	75
5	Contractor's staff mobilization ()	90
6	Contractor's office accommodations	80
7	Contractor's staff quarters	90
8	Contractor's laboratory	75
9	Contractor's machinery and equipment mobilization ()	50
10	Contractor verifying Project bench marks	100
11	Existing ground elevations	75
12	<b>Overlay - 8.237/8.150km</b>	0
13	Overlay 40mm - 0/2.350km	0
14	Overlay 80mm - 4.987/5.000km	0
15	Overlay 120mm - 3.250/0.800km	0
16	<b>Reconstruction - 9.106/11.614km</b>	0
17	Site Clearing and Grubbing - (57/66.4Ha) <b>9.106km/11.614km</b>	20
18	Bulk earthworks - road embankment - (317732/178332m3) <b>9.106km/11.614km</b>	15
19	Milling/Removing of existing asphalt pavement - (8000/11625m3) <b>9.106km/11.614km</b>	5
20	Removing sub base material - (22500/23500m3) <b>9.106km/11.614km</b>	0
21	Formation level - (33842/105746m2) <b>9.106km/11.614km</b>	0
22	Granular Capping layer - (350mm-42049/65617m3) <b>9.106km/11.614km</b>	0
23	Granular Sub base layer -((225mm-18890/40785m3),(200mm-14250/0m3)) <b>9.106km/11.614km</b>	0
24	Bituminous base course - 175mm - (91974/11461m2) <b>9.106km/11.614km</b>	0
25	Wearing course - 50mm - (90315/112254m2) <b>9.106km/11.614km</b>	0
26	Granular shoulder - 225mm - (11168/13015m3) <b>9.106km/11.614km</b>	0
27	<b>Realignment - 1.657/1.236km</b>	0
28	Site Clearing and Grubbing - (10/7.1Ha) <b>1.657km/1.236km</b>	0
29	Bulk earthworks - road embankment - (57818/18978m3) <b>1.657km/1.236km</b>	0
30	Formation level -( 6158/11254m2) <b>1.657km/1.236km</b>	0
31	Granular Capping layer - (350mm-7651/6983m3) <b>1.657km/1.236km</b>	0
32	Granular Sub base layer - 225mm - (6030/4340m3) <b>1.657km/1.236km</b>	0
33	Bituminous base course - 175mm - (16736/12139m2) <b>1.657km/1.236km</b>	0
34	Wearing course - 50mm - (16435/11946m2) <b>1.657km/1.236km</b>	0
35	Granular shoulder - 225mm - (2032/1385m3) <b>1.657km/1.236km</b>	0
36	<b>Structures - Bridges (6), culverts (103)</b>	0
37	Bridge - Bridges new(2), rehab.(4) Work is going 2(new)	25
38	Culverts - 48/55num Work is going on 34 culverts	20
39	<b>Finishing off the Project - 40km</b>	0
40	Road signs and marking - 40km	0
41	Site drains	0
	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	

### B.2.3.3.3. Project progress summary

Contractor is running this Project in accordance with the last approved WP within 40 days delay.

#### B.2.3.3.3.1. Work Progress on structures



B.2.3.3.1.1. Progress on culverts

Table 7

Item	Num	Exist	Location	Type	Size	Check	Start	End	Action
107e	1	yes	40+788	Box	2,0x2,0	yes			Replace
108e	2	yes	41+896	Box	3,0x3,5	yes			Replace
109e	3	yes	42+241	Pipe	1000	yes			Replace
110e	4	yes	42+518	Pipe	1250	yes			Replace
22	5	yes	42+618	Pipe	1250	yes			Replace
111e	6	yes	42+872	Pipe	1250	yes			Replace
23	7	yes	42+972	Pipe	1250	yes			Replace
112e	8	yes	43+188	Pipe	1250	yes			Replace
113e	9	yes	43+454	Pipe	1250	yes			Replace
114e	10	yes	43+772	Pipe	1250	yes			Replace
115e	11	yes	44+040	Pipe	1250	yes			Replace
116e	12	yes	44+230	Pipe	1000	yes			Replace
117n	13	no	44+450	Box	4,0x2,5	no			New
118n	14	no	45+075	Pipe	2x1250	no			New
119e	15	yes	45+099	Pipe	1250	yes			Replace
120e	16	yes	45+515	Pipe	1250	yes			Replace
121e	17	yes	45+804	Pipe	1250	yes			Replace
122e	18	yes	46+242	box	2200	yes			Replace
24	19	yes	46+421	Pipe	1000	yes			Replace
123e	20	yes	46+504	Pipe	1250	yes			Replace
25	21	yes	46+804	Pipe	2200	yes			Replace
26	22	yes	47+137	Pipe	1000	yes			Replace
27	23	yes	47+270	Pipe	1250	yes			Replace
28	24	yes	47+404	Pipe	1250	yes			Replace
124e	25	yes	47+730	Box	2,0x2,0	yes	05/07/2004		Rehabilitate
125e	26	yes	48+108	Pipe	1000	yes			New
126e	27	yes	48+396	Pipe	2200	yes			Replace
127e	28	yes	48+700	Pipe	1000	yes	06/11/2004	18/11/2004	Replace
128e	29	yes	49+066	Pipe	1250	yes	10/09/2004		Replace
129e	30	yes	49+250	Pipe	1250	yes	13/11/2004		Replace
130e	31	yes	49+614	Pipe	1250	yes	22/11/2004		Replace
29	32	yes	49+657	Pipe	1000	yes			Replace
131e	33	yes	50+155	Box	4,0x5,0	yes			Replace
132e	34	yes	50+845	Pipe	500	yes	13/11/2004		Replace
133e	35	yes	50+964	Pipe	1250	yes	21/09/2004	20/10/2004	Replace
30	36	yes	51+064	Pipe	1000	yes			deleted
31	37	yes	51+360	Pipe	1000	yes	07/11/2004	19/11/2004	Replace
134n	38	yes	51+430	Pipe	2x1250	yes	15/09/2004	07/10/2004	Replace
135e	39	yes	51+540	Pipe	1000	yes	31/10/2004	20/11/2004	Replace
136e	40	yes	51+649	Pipe	1000	yes	23/09/2004	15/10/2004	Replace
32	41	yes	51+800	Pipe	1000	yes			deleted
137e	42	yes	52+041	Pipe	1000	yes	30/10/2004	20/11/2004	Replace
138e	43	yes	52+460	Pipe	1000	yes	02/10/2004	18/10/2004	Replace
33	44	yes	53+136	Pipe	1000	yes	25/09/2004	09/10/2004	Replace
139e	45	yes	53+421	Pipe	1000	yes	10/11/2004	17/11/2004	Replace
140e	46	yes	53+456	Pipe	1000	yes	03/09/2004	17/10/2004	Replace
141e	47	yes	53+697	Pipe	1000	yes	22/10/2004	05/11/2004	Replace
142e	48	yes	53+865	Pipe	2x500	yes			Replace
143e	49	yes	53+980	Pipe	1000	yes	13/10/2004	28/10/2004	Replace
144e	50	yes	54+121	Pipe	2x500	yes	15/11/2004		Replace
145e	51	yes	54+331	Pipe	500	yes			Replace
146e	52	yes	54+505	Pipe	500	yes	12/11/2004		Replace
34	53	no	54+618	Pipe	500	no	22/11/2004		New
147e	54	yes	54+593	Pipe	1250	yes	10/09/2004	26/10/2004	Replace
148e	55	yes	54+924	Pipe	1250	yes			Replace
35	56	yes	55+150	Pipe	1000	yes	07/10/2004	23/10/2004	Replace
149e	57	yes	55+405	Pipe	2x500	yes			Replace
36	58	yes	55+548	Pipe	1200	yes			Replace
150n	59	yes	56+502	Pipe	1250	yes			Replace
151e	60	yes	57+003	Pipe	1250	yes			Replace

152e	61	yes	57+093	Pipe	500	yes	15/11/2004		Replace
153n	62	yes	57+578	Pipe	500	yes	11/11/2004	21/11/2004	Replace
37	63	yes	58+014	Pipe	2x500	yes	08/11/2004		Replace
154e	64	yes	58+124	Pipe	2x500	yes	22/11/2004		Replace
155e	65	yes	58+520	Pipe	1250	yes			Replace
156e	66	yes	58+549	Pipe	2x1000	yes			Replace
157n	67	yes	58+758	Pipe	1250	yes			Replace
38	68	yes	59+175	Pipe	500	yes			Replace
158e	69	yes	59+593	Pipe	500	yes			Replace
159n	70	no	59+850	Box	4,0x2,5	no			New
39	71	no	60+131	Pipe	1000	yes	30/10/2004	13/11/2004	New
160e	72	yes	60+986	Box	1250	yes			Replace
161n	73	no	62+050	Box	3,0x2,5	no			New
162e	74	yes	62+449	Pipe	1000	yes			Replace
163e	75	yes	62+627	Pipe	1000	yes			Replace
164e	76	yes	63+233	Pipe	1000	yes	06/07/2004		Rehabilitate
165e	77	yes	63+744	Pipe	1000	yes			Replace
166e	78	yes	64+039	Pipe	1250/1000	yes			Replace
167e	79	yes	64+456	Pipe	1000	yes	06/07/2004		Rehabilitate
168e	80	yes	65+004	Box	4,0x2,0	yes			Replace
169e	81	yes	65+725	Box	2,0x1,5	yes			Replace
170e	82	yes	67+033	Pipe	1250	yes			Replace
171e	83	yes	67+320	Pipe	1250	yes			Replace
172e	84	yes	67+612	Pipe	1000	yes			Replace
173e	85	yes	67+880	Pipe	1000	yes	06/07/2004		Rehabilitate
174e	86	yes	68+095	Pipe	1000	yes			Replace
175e	87	yes	68+654	Box	4,5x3,5	yes			Replace
40	88	yes	68+954	Pipe	1000	yes			deleted
176e	89	yes	69+427	Box	3(3,0x4,0)	yes			Full water
41	90	yes	69+600	Pipe	1250	yes			Replace
177e	91	yes	70+250	Box	2,0x2,0	yes			Replace
178e	92	yes	70+361	Box	3,5x3,5	yes			Replace
179e	93	yes	71+562	Pipe	1000	yes			Replace
180n	94	yes	71+641	Box	2,0x2,0	yes			Replace
181e	95	yes	71+851	Box	2,0x2,0	yes			Full water
182e	96	yes	72+709	Pipe	1000	yes			Replace

### B.2.3.3.3.1.2. Progress on Bridges

#### B.2.3.3.3.1.2.1. General on Bridge structures

Table 8

Bridge No	Chainage	Description of the existing structure	Existing length (meter)	Carriage way	Action	Description according to the project (meter)	Size according to the project	Carriage way
43	44+808	4.4*5.0 B	9.1	8.7	Box culvert	5.0*2.5 B	23.5	9
45	60+101	10.2+16.1+ 10.2	46	7	Replace/New	12+15+12	48.5	11.5
46	66+144	1*13.70	19.7	7	Replace/New	1*15	27	11.5
47	70+940	(3*22)+(3*21)	145	7	Replace/New	(3*22)+(3*21)	14.5	11.5

#### B.2.3.3.3.1.2.2. Bridge 45

Works progressing as per the Work Programme – Bridge 45 below:

Figure 3



ID	Task Name	Durati	Start	Finish	Septem		October		November		December		January		February		March		April		May		June		July		August		September		October		November	
					E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M
1	✓ Drilling and cast in situ Piles etc	10 d:	Tue 24/	Mon 06/																														
2	✓ Intermediate pile caps foundati	13 d:	Thu 26/	Mon 13/																														
3	✓ Intermediate piers	13 d:	Fri 01/1	Tue 19/																														
4	✓ Cross beams	21 d:	Mon 11/	Mon 08/																														
5	Pre cast Beams	11 d:	Thu 28/	Thu 11/																														
6	Bridge deck	20 d:	Thu 11/	Wed 08/																														
7	Micellanious on bridge deck	8 d:	Thu 18/	Mon 29/																														
8	✓ Retaining walls	45 d:	Mon 20/	Fri 19/1																														
9	Approach roads	74 d:	Fri 27/	Wed 08/																														
10	Pavement on approach roads	24 d:	Thu 09/	Mon 10/																														
11	Misellanious	3 d:	Thu 06/	Mon 10/																														

### B.2.3.3.3.1.2.3. Bridge 46

The Contractor forwarded Bridge 46 design drawings and B&Q for consideration and approval (KA/F-110/04 dated September 22<sup>nd</sup>2004). Client approval has been granted and Contractor is busy obtaining approval for opening of the detour with the local traffic police.

### B.2.3.3.3.2. Problems which might effect onto completion date

Table 9

<b>Problems associated with completing the Contract in time</b>	<b>Actions taken</b>
Early warnings – clause 32, Conditions of Contract – existing buildings along the road, narrow road within the urban locations and our proposal to original pavement urban design	Comprehensive study done by us and sent for Client consideration and instructions
Most of existing culverts are badly displaced and rehabilitation works recommended shall not improved the present structures situation, thereafter replacement required	Client's instruction is to replaced all culverts where repair works been required
Contractor completes the longitudinal redesign and Client been furnished with their copy for approval. Contractor is behind on bridge design	The Client to issue approval. Contractor to make drawings
Relocation of services did not start yet. Contractor having problems to obtain cost and shop drawings for relocation	The Contractor urge to supply as soon as possible cost
Existing road sub grade is a blackish soil which as a material tested in lab just pass the low Specification limits but with a bit of extra water make the material collapsing in a rubber kind of mass exceptionally plastic and non compactable	Client observe the problem during the site visit end of November 2004
Volumes of unsuitable soil is extremely underestimated in the original B&Q and as a result have to be expected that final volumes shall exceed few time	Client worn during the site visit Nov 2004

### B.2.3.4. Variations and claims

#### B.2.3.4.1. Claims

##### B.2.3.4.1.1. Claim №1

First Contractor's claim has been received - Requested Advance payment of 20% has not been paid yet and Contractor is claiming (see Contractor's letter MM-37/04 dated May 6<sup>th</sup>, 2004 and Consultant letter P167 of 10 May 2004) in accordance to the Conditions of Contract, clause 44, sub-clause 44.1(i) the delay of advance payment is a compensation event. This includes compensation on both additional cost (clause 44.2) and extension of time due to a compensation event (clause 28.1). Further the Contractor refers to Clause 43 (Payment), sub-clause 43.1, and claiming interest rate on late payments. It's under PM consideration.

##### B.2.3.4.1.2. Claim №2

Second Contractor's claim has been received - Requested Advance payment of 20% has not been paid partially and Contractor is claiming in accordance to the Conditions of Contract, clause 44, sub-clause 44.1(i) the delay of advance payment is a compensation event. This includes compensation on both additional cost (clause 44.2) and extension of time due to a compensation event (clause 28.1). Further the Contractor refers to Clause 43 (Payment), sub-clause 43.1, and claiming interest rate on late payments. It's under PM consideration.

### B.2.3.4.1.3. Claim №3

The Contractor entered third claim for extension of time of 10 months (KA/F-105/4 dated September 13<sup>th</sup>2004) reference article 44 – Compensation Events under the Contract. Claim forwarded to PM for consideration.

### B.2.3.4.2. Variations

#### B.2.3.4.2.1. Variation order №1

Under preparation – On Client instruction, Works on Contract CW2003-3 since km 40+000 to km 42+000 are to be stopped temporary due to potential planned construction of Tovuz bypass. This VO would be finalized after agreement with the Employer and WB if Tovuz bypass would be constructed and Employer decision on Works to be done between km 40+000 – km 42+000.

### B.2.3.5. Financial

#### B.2.3.5.1. Interim Payment Certificates to dates

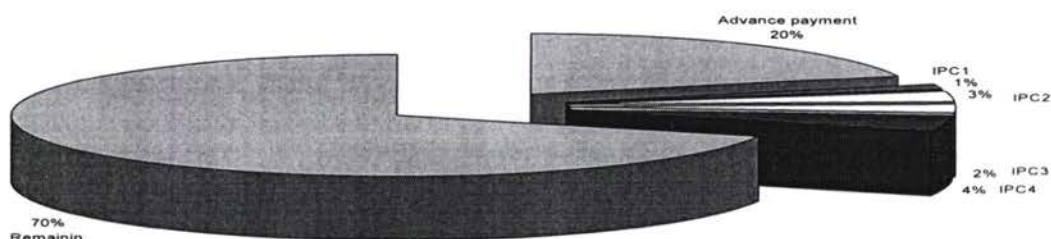
Table 10

Item	Date	IPC	Value AZM	%	Status
1	30/05/04	Advance	9,187,476,881.42	20.00%	paid
2	15/07/04	IPC1	582,606,720.00	1.27%	paid
3	30/07/04	IPC2	1,367,804,350.40	2.98%	paid
4	30/08/04	IPC3	945,010,642.00	2.06%	not yet
5	30/10/04	IPC4	1,907,714,893.00	4.15%	not yet
		To date	13,990,613,486.82	30.46%	not fully
		Available	31,946,770,920.32	69.54%	Remained
		Contract price	45,937,384,407.14	100.00%	

The IPC 5 has not been entered yet at the time of preparation of the Report

Figure 4

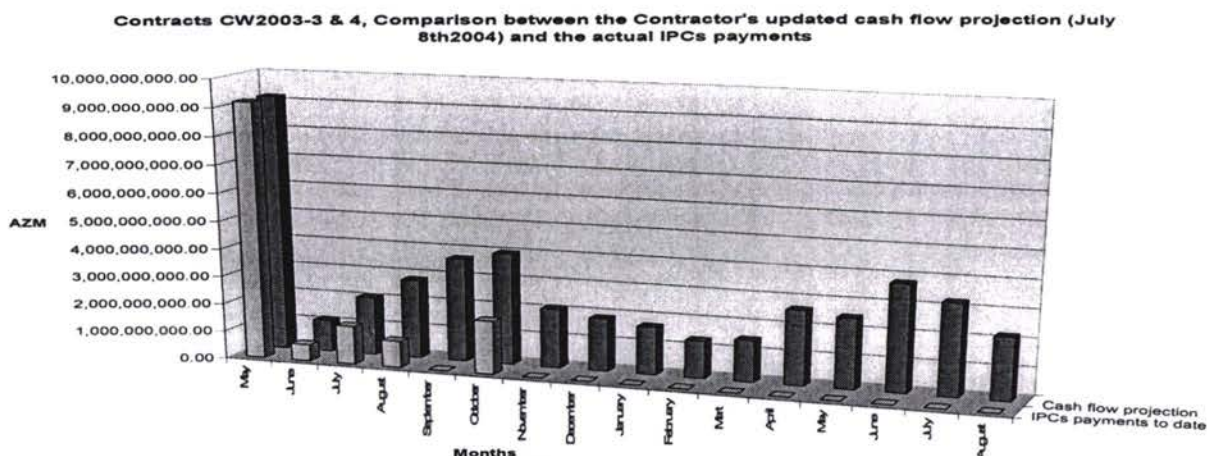
Contracts CW2003-3 & 4, Payments to date and the remaining value of Works



#### B.2.3.5.2. Cash Flow projection



Figure 5



**B.2.3.5.3. Contract assessment - Contract time**

Contract is running about 190 days delay including 150 days initial delay for longitudinal redesign.

**B.2.3.6. Testing results**

Table 11

Description of Work		Test Performed				Remarks
		Total	Passed	Retested	% Passed	
<b>Road Embankment</b>						
1	FDT/Nuclear Density	421	354	67	84.1	
2	PI	1	0	1	0	
3	MDD/Proctor	1	0	1	0	
4	CBR	1	0	1	0	
5	Moisture Content	1	0	1	0	
<b>Granular capping layer or selected sub grade fill- 1 (175mm Of 350mm)</b>						
1	Gradation	1	1	0	100	
2	FDT/Nuclear Density	8	4	4	50	
3	MDD/Proctor	1	1	0	100	
4	PI	1	1	0	100	
5	CBR	1	1	0	100	
6	Moisture Content	1	1	0	100	
<b>Granular capping layer or selected sub grade fill- 2 (175mm Of 350mm)</b>						
1	Gradation	1	1	0	100	
2	FDT/Nuclear Density	6	4	2	66.7	
3	MDD/Proctor	1	1	0	100	
4	PI	1	1	0	100	
5	CBR	1	1	0	100	
6	Moisture Content	1	1	0	100	
<b>Granular Shoulder (sub base material) 225mm</b>						
1	Gradation (Combined)	0	0	0	0	
2	FDT/Nuclear Density	0	0	0	0	
3	MDD/Proctor	0	0	0	0	
4	LAA	0	0	0	0	
5	Sp. Gravity	0	0	0	0	
6	Water Absorption	0	0	0	0	
7	Moisture Content	0	0	0	0	
8	CBR	0	0	0	0	
9	PI	0	0	0	0	
<b>Concrete Works</b>						
1	Compression Test	101	101	0	100	
2	Slump	54	54	0	100	
3	Gradation	0	0	0	0	
4	LAA	0	0	0	0	
5	Soundness	0	0	0	0	



6	Sp. Gravity	0	0	0	0
7	Flakiness Index	0	0	0	0
8	Sand equivalent	0	0	0	0
9	Unit Weight	101	101	0	100

### B.2.3.7. Correspondence records

#### B.2.3.7.1. Incoming Letters

Table 12

Item	Date Received	Auth from	Sender's ref	Date on the Letter	In resp to	Subject	Replay status			
							Attachments	Required Yes/N	Date Sent	Our Ref.
1	02/11/2004	A.S	KA/AS131/04	02/11/2004	N/A	Revised an Organization Chart MZ Autobahn Bau GmbH/Baku	yes	yes	03/11/2004	149
2	04/11/2004	A.S	KA/AS-132/04	03/11/2004	N/A	Variation order	yes	yes	11/11/2004	159
3	04/11/2004	A.S	KA/AS-134/04	04/11/2004	N/A	Bridge No 46, Methodology of bridge construction and price analysis	no	yes	18/11/2004	172
4	15/10/2004	A.S	KA/AS-135/04	14/10/2004	N/A	Supplementary cross profiles Km 65+500-68+080	yes	yes	23/11/2004	174
5	05/11/2004	A.S	KA/AS-136/04	05/11/2004	N/A	Shop drawings of pipe culverts	yes	yes	11/11/2004	160
6	08/11/2004	A.S	KA/AS-137/04	05/11/2004	N/A	Shop drawings of pipe culverts	yes	yes	11/11/2004	161
7	08/11/2004	A.S	KA/AS-138/04	05/11/2004	N/A	Shop drawings of pipe culverts	yes	yes	12/11/2004	167
8	08/11/2004	A.S	KA/AS-139/04	05/11/2004	N/A	Shop drawings of pipe culverts	yes	yes	11/11/2004	162
9	08/11/2004	A.S	KA/AS-141/04	08/11/2004	N/A	Obstacles on the road 42+000-46+000	no	yes	11/11/2004	164
10	08/11/2004	A.S	KA/AS-142/04	08/11/2004	N/A	Obstacles on the road 66+000-73+000	no	yes	11/11/2004	164
11	08/11/2004	A.S	KA/AS-143/04	08/11/2004	N/A	Shop drawings of pipe culverts	yes	yes	12/11/2004	168
12	08/11/2004	A.S	KA/AS-144/04	08/11/2004	N/A	Results of laboratory test of materials	yes	yes	10/11/2004	157
13	08/11/2004	A.S	KA/AS-145/04	08/11/2004	N/A	Request for inspection	no	yes	11/11/2004	163
14	09/11/2004	Q.Q	01/1490	08/11/2004	N/A	Bridge 46	yes	yes	10/11/2004	156
15	10/11/2004	A.S	KA/AS-146/04	10/11/2004	N/A	Demand of variation order	yes	yes	12/11/2004	169
16	10/11/2004	A.S	KA/AS-147/04	10/11/2004	N/A	Shop drawing of pipe	yes	yes		
17	10/11/2004	A.S	KA/AS-148/04	10/11/2004	N/A	Borrow pits	yes	yes	17/11/2004	170
18	11/11/2004	A.S	KA/AS-149/04	11/11/2004	N/A	Variation order	yes	yes	23/11/2004	175
19	14/11/2004	A.S	KA/AS-150/04	11/11/2004	N/A	Presentation of IPS 4- October 2004	no	yes	18/11/2004	173
20	11/11/2004	A.S	KA/AS-151/04	11/11/2004	N/A	Presentation of Work program and cash flow period October 2004	yes	yes	23/11/2004	176
21	15/11/2004	A.S	KA/AS-154/04	15/11/2004	N/A	Concerning the mobilization of a balance	no	yes	23/11/2004	177
22	15/11/2004	A.S	KA/AS-155/04	15/11/2004	N/A	Shop drawing of pipe	yes	yes	23/11/2004	178
23	15/11/2004	A.S	KA/AS-156/04	15/11/2004	N/A	Revised project of cection	no	yes	17/11/2004	171
24	16/11/2004	A.S	KA/AS-157/04	16/11/2004	155/09	Letter 155	yes	yes	23/11/2004	179
25	18/11/2004	A.S	KA/AS-158/04	17/11/2004	N/A	Change of the longitudinal profile between Km 56+260-57+400 and 57-100-57+720	yes	yes	23/11/2004	181
26	18/11/2004	A.S	KA/AS-159/04	18/11/2004	N/A	Shop drawings of pipes	yes	yes	23/11/2004	180
27	22/11/2004	A.S	KA/AS-160/04	18/11/2004	N/A	Shop drawings of pipes	yes	yes	24/11/2004	185
28	18/11/2004	A.S	KA/AS-161/04	18/11/2004	N/A	Bridge No 45	yes	yes	23/11/2004	182
29	18/11/2004	A.S	KA/AS-162/04	18/11/2004	N/A	Premilinary approval of the junction on Pk 59+755 approach to the bridge No 45 Pk 0+164	yes	yes		
30	22/11/2004	A.S	KA/AS-163/04	19/11/2004	N/A	Shop drawings of pipes	yes	yes	24/11/2004	186
31	22/11/2004	A.S	KA/AS-164/04	21/11/2004	N/A	Shop drawings of pipes	yes	yes	24/11/2004	187
32	22/11/2004	A.S	KA/AS-165/04	22/11/2004	N/A	Shop drawings of pipes	yes	yes	24/11/2004	188
33	22/11/2004	A.S	KA/AS-166/04	22/11/2004	N/A	Chemical analysis of water	yes	yes		
34	24/11/2004	A.S	KA/AS-170/04	19/11/2004	N/A	Shop drawings of the culverts	yes	yes		
35	24/11/2004	A.S	KA/AS-171/04	19/11/2004	N/A	Shop drawings	yes	yes		
36	24/11/2004	A.S	KA/AS-172/04	24/11/2004	N/A	Shop drawings of pipes	yes	yes		
37	24/11/2004	A.S	KA/AS-173/04	24/11/2004	N/A	Subbase Design	yes	yes		
38	24/11/2004	A.S	KA/AS-174/04	24/11/2004	N/A	About Obstacles	yes	yes		
39	26/11/2004	A.S	KA/AS-175/04	26/11/2004	N/A	Contractors Staff and Equipment	yes	yes		
40	26/11/2004	A.S	KA/AS-176/04	26/11/2004	N/A	Certificates of cement, technical passport of concrete structures	yes	yes		
41	26/11/2004	A.S	KA/AS-177/04	26/11/2004	N/A	Analyses Pipes	yes	yes		
42	29/11/2004	A.S	KA/AS-178/04	27/11/2004	N/A	Change of the longitudinal profile between Km 52+400-53+400	yes	yes		

#### B.2.3.7.2. Outgoing letters



Table 13

Item	Date Posted	Auth Initials	Our No	Date Written	In response to	Subject	Attachments	Required Yes/No	Date Sent	Sender's Ref.
1	02/11/2004	S.D	134	01/11/2004	N/A	Project Managers office and house	no	yes		
2	02/11/2004	S.D	135	01/11/2004	KA/F-115/04	Letter KA/F-115/04 11.10.04	no	yes		
3	02/11/2004	S.D	136	01/11/2004	KA/AS-125/04	Letter KA/AS-125/04 25.10.04	no	no		
4	02/11/2004	S.D	137	01/11/2004	KA/AS-122/04	Letter KA/AS-122/04 21.10.04	no	yes		
5	02/11/2004	S.D	138	01/11/2004	KA/AS-127/04	Letter KA/AS-127/04 28.10.04	no	yes		
6	02/11/2004	S.D	139	01/11/2004	KA/AS-121/04	Letter KA/AS-121/04 16.10.04	no	yes		
7	02/11/2004	S.D	140	01/11/2004	KA/AS-128/04	Letter KA/AS-128/04 28.10.04	no	no		
8	03/11/2004	S.D	141	02/11/2004	N/A	Request for inspections	no	yes		
9	04/11/2004	S.D	142	03/11/2004	KA/F-114/04	Letter KA/F-114/04 05.10.04	no	no		
10	03/11/2004	S.D	143	03/11/2004	KA/F-116/04	Letter KA/F-116/04 11.10.04	no	yes		
11	04/11/2004	S.D	144	03/11/2004	KA/AS-117/04	Letter KA/AS-117/04 11.10.04	no	no		
12	03/11/2004	S.D	145	03/11/2004	KA/AS-120/04	Letter KA/AS-120/04 15.10.04	no	no		
13	04/11/2004	S.D	146	03/11/2004	KA/AS-123/04	Letter KA/AS-123/04 22.10.04	no	no		
14	04/11/2004	S.D	147	03/11/2004	KA/AS-124/04	Letter KA/AS-124/04 27.10.04	no	yes		
15	04/11/2004	S.D	148	03/11/2004	KA/AS-126/04	Letter KA/AS-126/04 27.11.04	no	no		
16	04/11/2004	S.D	149	03/11/2004	KA/AS-131/04	Letter KA/AS-131/04 02.11.04	no	no		
17	04/11/2004	S.D	150	03/11/2004	KA/AS-119/04	Letter KA/AS-119/04 14.10.04	no	no		
18	09/11/2004	S.D	151	08/11/2004	N/A	Slow progress of Works	no	no		
19	09/11/2004	S.D	152	08/11/2004	03/1385, 03/1361	Letter 03/1385 15.10.04, 03/1361	no	yes		
20	09/11/2004	S.D	153	09/11/2004	03/1372	Letter 03/1372 11.10.04	yes	no		
21	09/11/2004	S.D	154	09/11/2004	03/1384	Letter 03/1384 15.10.04	yes	no		
22	09/11/2004	S.D	155	09/11/2004	N/A	Approach road to Bridge 45-Baku	no	yes		
23	11/10/2004	S.D	156	10/11/2004	01/1490	Letter 01/1490 08.11.04	yes	no		
24	11/11/2004	S.D	157	10/11/2004	KA/AS-144/04	Letter KA/AS-144/04 08.11.04	no	yes		
25	13/11/2004	S.D	158	11/11/2004	N/A	Mobilization of a balance on site	no	yes		
26	13/11/2004	S.D	159	11/11/2004	KA/AS-132/04	Letter KA/AS-132/04 03.11.04	no	no		
27	11/11/2004	S.D	160	11/11/2004	KA/AS-136/04	Letter KA/AS-136/04 05.11.04	no	no		
28	11/11/2004	S.D	161	11/11/2004	KA/AS-137/04	Letter KA/AS-137/04 05.11.04	no	no		
29	13/11/2004	S.D	162	11/11/2004	KA/AS-139/04	Letter KA/AS-139/04 05.11.04	no	no		
30	13/11/2004	S.D	163	11/11/2004	KA/AS-145/04	Letter KA/AS-145/04 08.11.04	no	no		
31	13/11/2004	S.D	164	11/11/2004	KA/AS-141/04	Letter KA/AS-141/04 08.11.04	no	no		
32	13/11/2004	S.D	165	11/11/2004	N/A	Monthly Progress Minutes of Meeting	yes	no		
33	13/11/2004	S.D	166	12/11/2004	KA/AS-129/04	Letter KA/AS-129/04 26.10.04	no	no		
34	13/11/2004	S.D	167	12/11/2004	KA/AS-138/04	Letter KA/AS-138/04 05.11.04	no	no		
35	13/11/2004	S.D	168	12/11/2004	KA/AS-143/04	Letter KA/AS-143/04 08.11.04	no	no		
36	13/11/2004	S.D	169	12/11/2004	KA/AS-146/04	Letter KA/AS-146/04 10.11.04	no	yes		
37	18/11/2004	S.D	170	17/11/2004	KA/AS-148/04	Letter KA/AS-148/04 11.11.04	no	no		
38	18/11/2004	S.D	171	17/11/2004	KA/AS-156/04	Letter KA/AS-156/04 15.11.04	no	no		
39	22/11/2004	S.D	172	18/11/2004	KA/AS-134/04	Letter KA/AS-134/04 11.11.04	no	yes		
40	24/11/2004	S.D	173	18/11/2004	KA/AS-150/04	Letter KA/AS-150/04 11.11.04	no	no		
41	24/11/2004	S.D	174	23/11/2004	KA/AS-135/04	Letter KA/AS-135/04 10.10.04	no	no		
42	29/11/2004	S.D	175	23/11/2004	KA/AS-149/04	Letter KA/AS-149/04 11.10.04	no	no		
43	26/11/2004	S.D	176	23/11/2004	KA/AS-151/04	Letter KA/AS-151/04 11.11.04	no	no		
44	26/11/2004	S.D	177	23/11/2004	KA/AS-154/04	Letter KA/AS-154/04 11.11.04	no	no		
45	26/11/2004	S.D	178	23/11/2004	KA/AS-155/04	Letter KA/AS-155/04 15.11.04	no	no		
46	29/11/2004	S.D	179	23/11/2004	KA/AS-157/04	Letter KA/AS-157/04	no	no		
47	26/11/2004	S.D	180	23/11/2004	KA/AS-159/04	Letter KA/AS-159/04 18.11.04	no	no		
48	26/11/2004	S.D	181	23/11/2004	KA/AS-158/04	Letter KA/AS-158/04 17.11.04	no	yes		
49	29/11/2004	S.D	182	23/11/2004	KA/AS-161/04	Letter KA/AS-161/04 18.11.04	no	no		
50	26/11/2004	S.D	183	24/11/2004	KA/F-150/05	Letter KA/F-150/04 11.11.04	no	yes		
51	26/11/2004	S.D	184	24/11/2004	N/A	Intermediate Minutes of Meeting	no	no		
52	26/11/2004	S.D	185	24/11/2004	KA/AS-160/04	Letter KA/AS-160/04 18.11.04	no	no		
53	29/11/2004	S.D	186	24/11/2004	KA/AS-163/04	Letter KA/AS-163/04 19.11.04	no	no		
54	26/11/2004	S.D	187	24/11/2004	KA/AS-164/04	Letter KA/AS-164/04 21.11.04	no	no		
55	29/11/2004	S.D	188	24/11/2004	KA/AS-165/04	Letter KA/AS-165/04 22.11.04	no	yes		

### **B.2.3.8. Project progress photos**

- Starting off the sub base course – trial section
- 500mm double barrel service duct for irrigation purposes – public complain
- Protecting the Works from Water – conflict of interest
- After rain
- Structural works – Bridge 45 and Bridge 46
- Comparison between "Troxler" – Nuclear gauge checking compaction and Deflectometer proposed by Autobahn

*Photos have been taken out from the Report and would be sent if requested.*



# Rehabilitation of Caucasian Highways Azerbaijan Monthly Technical report

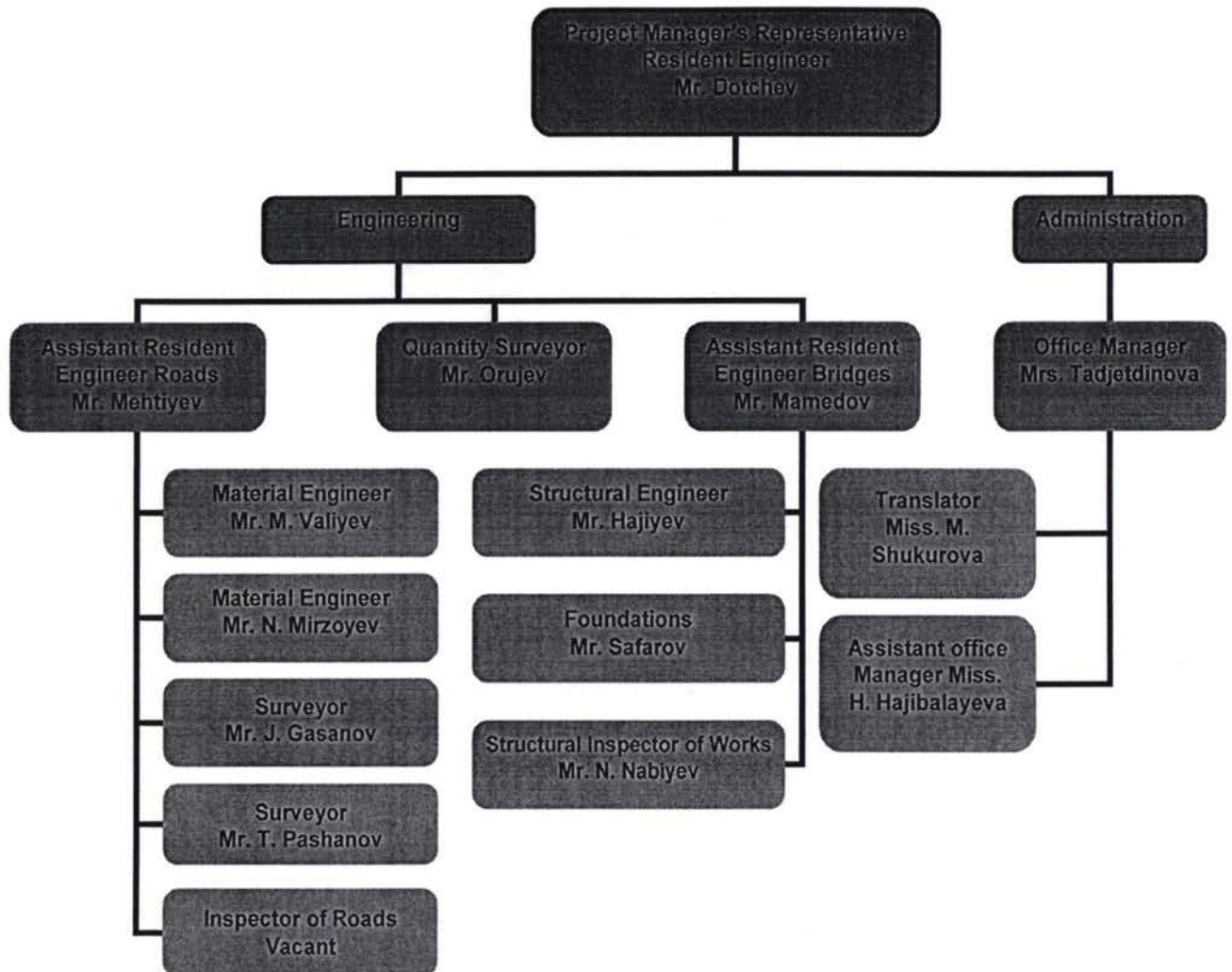
Segment 2 for the Project Component II:

Segment 4 for the Project Component II:

## General

### 3.1. Consultant's site staff management organogramme

Figure 1



### 3.2. Quality control procedures

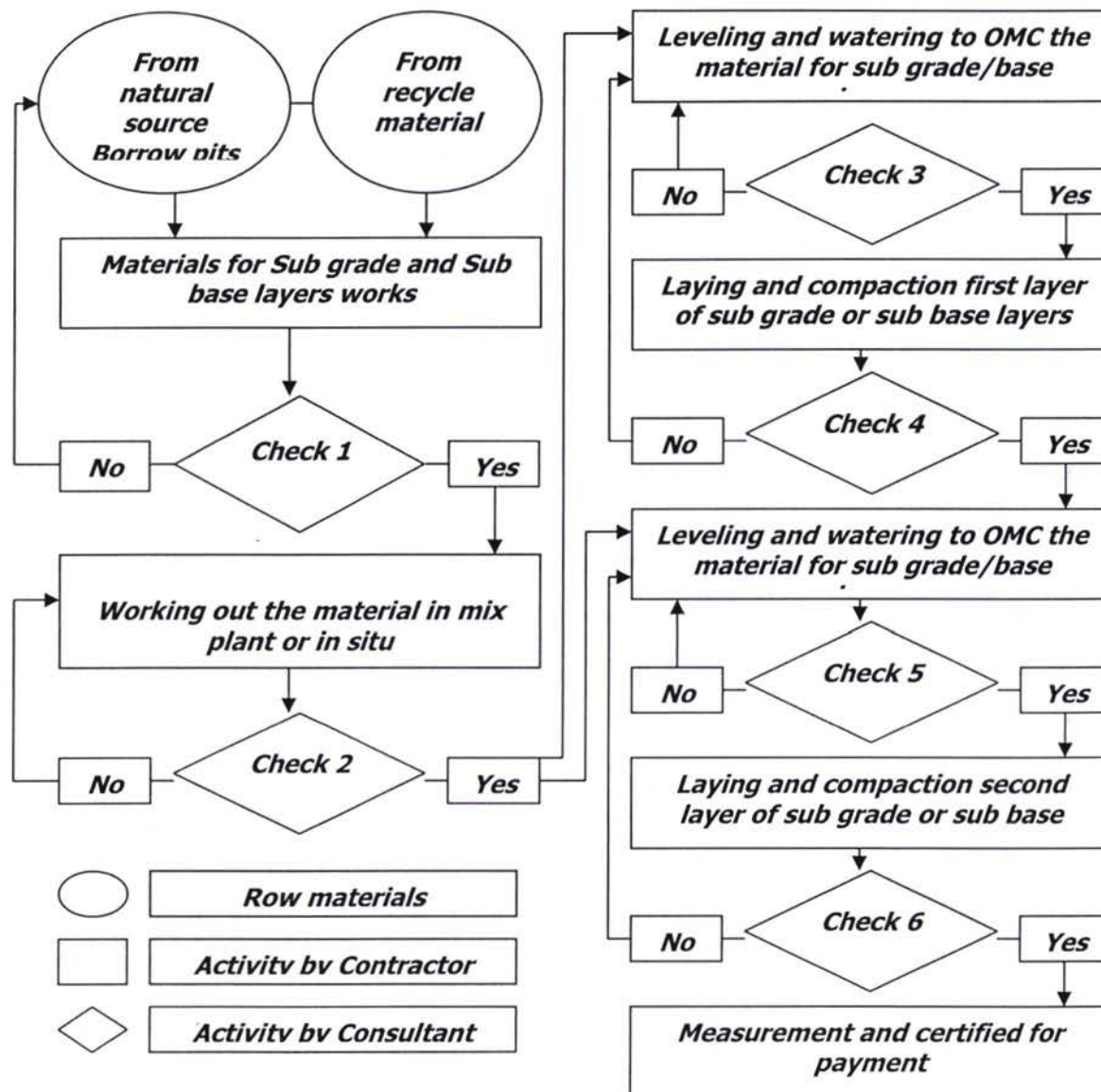
Quality control procedures have been described in TOR and been follow strictly during the execution of Works. Our supervisory staffs has been issue with task schedule where the detail appropriate description has been allocated to any one of the supervisory staff and Contractors have been timely inform for the power of duty given to each individual supervisory staff member.

Hereunder for easy reference are described Quality control procedures which are applicable for this projects and for each layer work the applicable quality control organogramme shows the basic criteria and the timing of controlling.



### 3.2.1. For Sub grade and Sub base

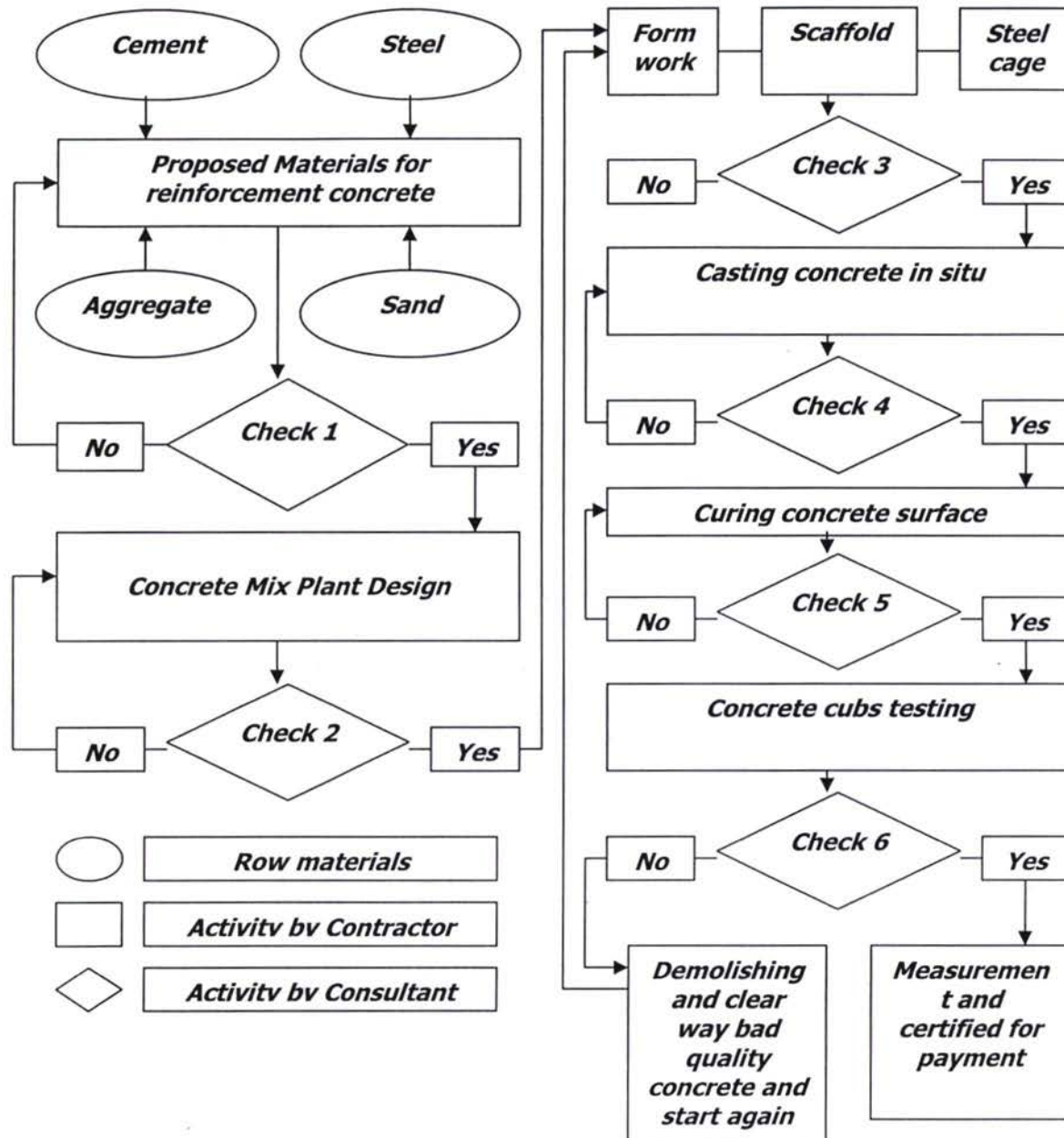
## Inspection & Approval of Sub grade and Sub base layers Works



1. **Check 1.**
  - Crushing Strength test Abrasion loss test (other test related to qualify)
2. **Check 2.**
  - Sieve analysis
3. **Check 3.**
  - CBR test (Camber check)

### 3.2.2. For concrete Work

## Inspection & Approval of Reinforcement concrete cast in situ Works



### 1. Check 1

- Stone – Crushing strength abrasion loss and requirements
- Cement – Binding Property
- Reinforcement steel – Tensile Strength

### 2. Check 2

- Crushing strength of Mix-design concrete sample

### 3. Check 3

- Formwork – Material quality, levels? Joints of form work
- Scaffolding – pro strength, soundness of scaffolding arrangement
- Reinforcement steel – dia, Bending test

### 4. Check 4



- Distribution and placing of Reinforcement steel, Levels, etc.
- Slam test, taking samples (cubs) for testing on 7<sup>th</sup> and 28<sup>th</sup> days

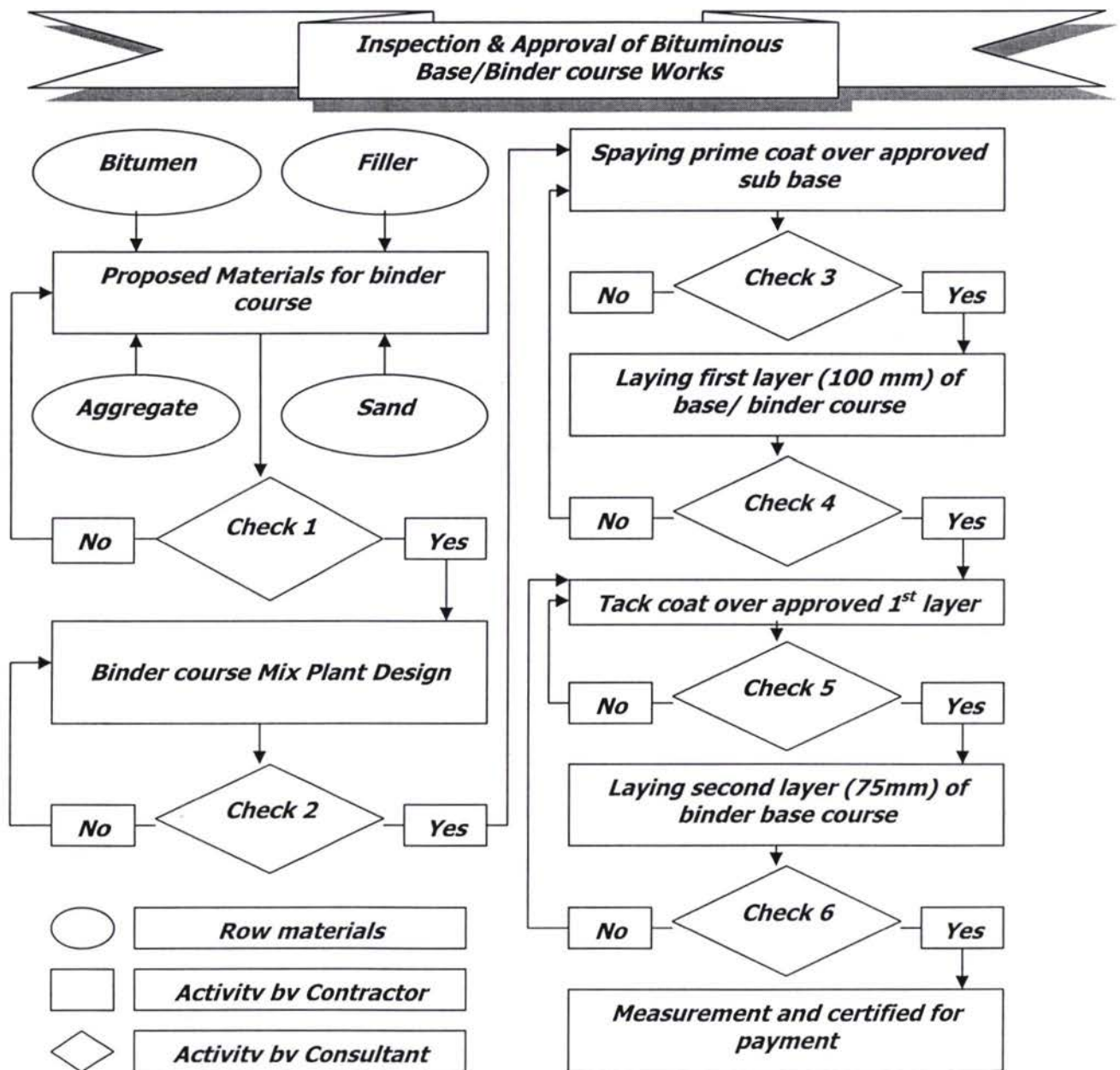
**5. Check 5**

- Collect concrete samples
- Checking curing process
- Test crushing strength

**6. Check 6**

- Test crushing strength

**3.2.3. For Asphalt Works – Bitumen base/binder**



**1. Check 1**

- Bitumen properties as per Technical specification
- Filler properties as per Technical specification

- Aggregate properties as per Technical specification
- Formulation of Prime and Tack coats

**2. Check 2**

- Approval of Job mix design
- Method Statement - Laying procedure
- Check heating bituminous & spreading quantity

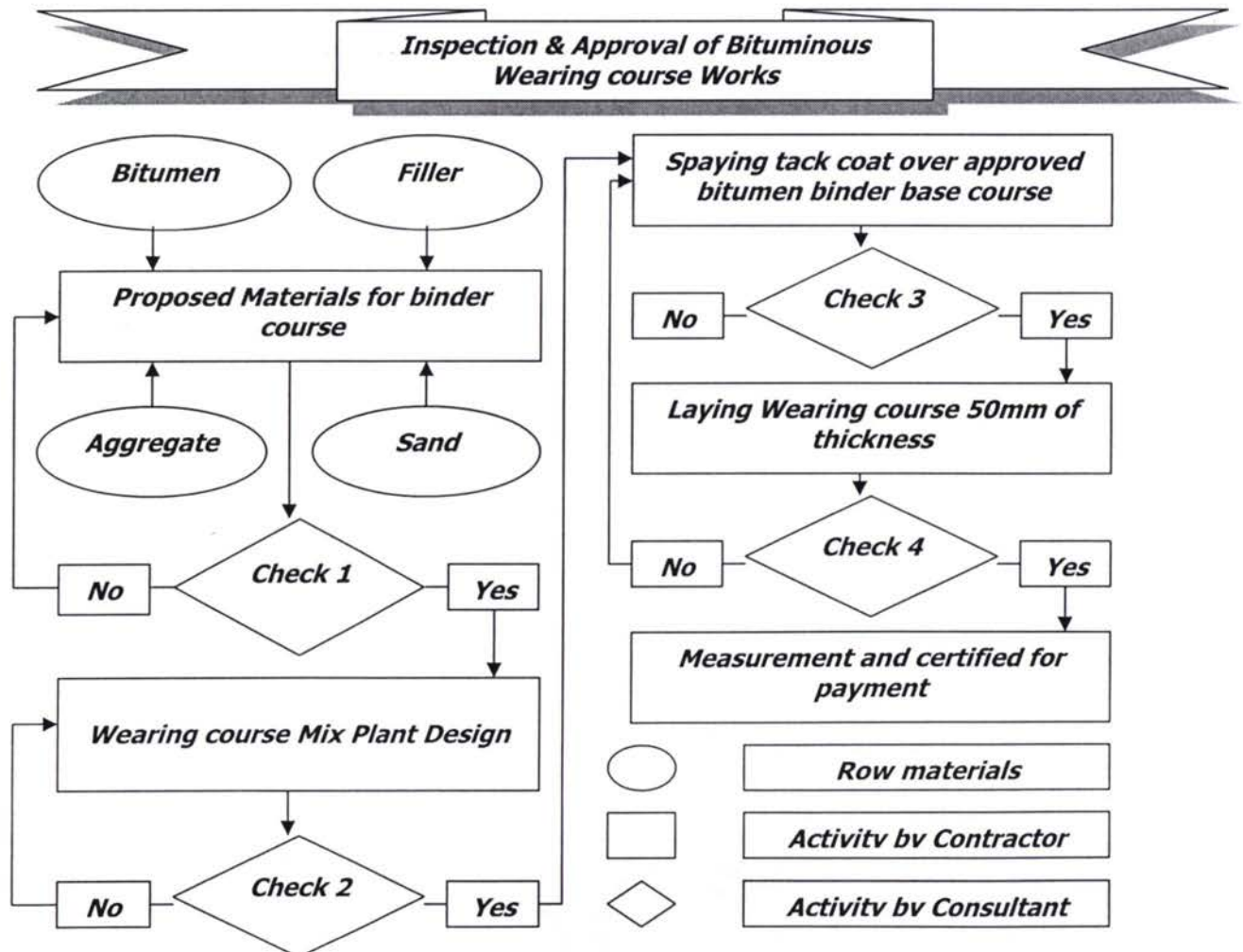
**3. Check 3 & 5**

- Testing the application rate

**4. Check 4 & 6**

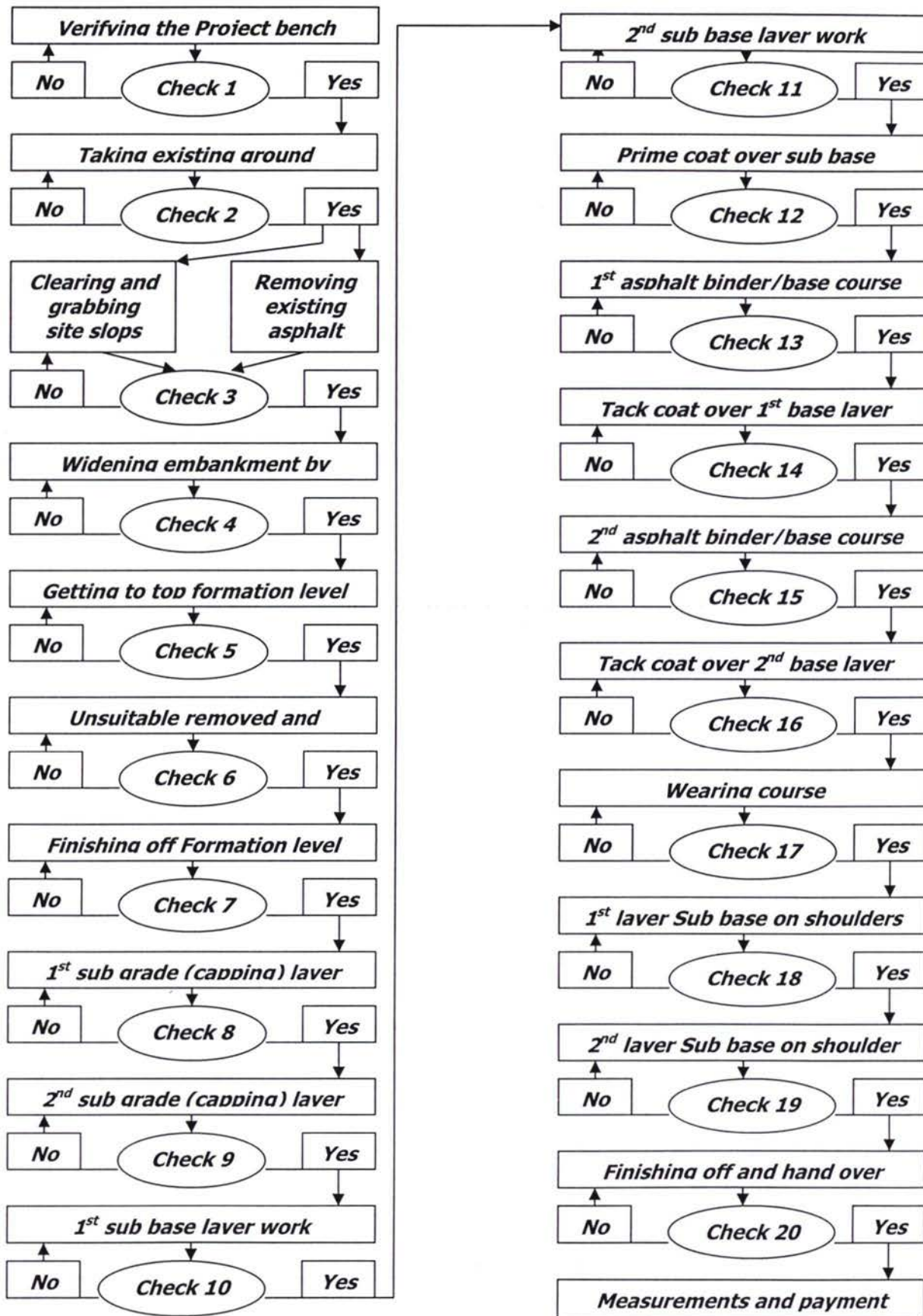
- Coring and crushing core test
- Camber check
- Thickness of layer
- Sieve analysis
- Abrasion loss test
- Bitumen heating check
- Marking procedure
- Laying procedure
- Rolling procedure
- Compaction
- Thickness check
- Camber check

**3.2.4. For Asphalt Works – Wearing course (see the checks 1 to 4 above)**





**Full Rehabilitation and reconstruction  
Works for CW2002-1 and CW2003-1 to 4**



### 3.3. Management Meetings and Correspondence

#### 3.3.1. Management Meetings

Management daily or weekly Meetings (Site Agent/Resident Engineer) has been performed and done as required. Monthly Progress Meeting in accordance with clause 31 of the Condition of the Contract has been set for ones a month (usually at the end of each month). The table below show the Meetings held to date. All Minutes of Monthly Progress Meetings are issued with in a week after each meeting has been held and copies distributed to all concerned parties for consideration and comments if any.

**Table 1**

CW2002-1		CW2003-1&2		CW2003-3&4	
No	Date	No	Date	No	Date
1	May 29 <sup>th</sup> 2003				
2	Jun 27 <sup>th</sup> 2003				
3	Jul 29 <sup>th</sup> 2003				
4	Aug 26 <sup>th</sup> 2003				
5	Sep 25 <sup>th</sup> 2003				
6	Oct 25 <sup>th</sup> 2003				
7	Nov 28 <sup>th</sup> 2003				
8	Jan 23 <sup>rd</sup> 2004				
9	Feb 23 <sup>rd</sup> 2004				
10	Mar 23 <sup>rd</sup> 2004	1	Mar 26 <sup>th</sup> 2004	1	Mar 26 <sup>th</sup> 2003
11	Apr 27 <sup>th</sup> 2004	2	Apr 28 <sup>th</sup> 2004	2	Apr 28 <sup>th</sup> 2004
12	May 25 <sup>th</sup> 2004	3	May 27 <sup>th</sup> 2004	3	May 27 <sup>th</sup> 2004
13	Jun 23 <sup>rd</sup> 2004	4	Jun 24 <sup>th</sup> 2004	4	Jun 25 <sup>th</sup> 2004
14	Jul 26 <sup>th</sup> 2004	5	Jul 28 <sup>th</sup> 2004	5	Jul 28 <sup>th</sup> 2004
15	Aug 24 <sup>th</sup> 2004	6	Aug 24 <sup>th</sup> 2004	6	Aug 24 <sup>th</sup> 2004
16	Sep 23 <sup>rd</sup> 2004	7	Sep 24 <sup>th</sup> 2004	7	Sep 24 <sup>th</sup> 2004
17	Oct 28 <sup>th</sup> 2004	8	Oct 29 <sup>th</sup> 2004	8	Oct 29 <sup>th</sup> 2004
18	Nov 25 <sup>th</sup> 2004	9	Nov 26 <sup>th</sup> 2004	9	Nov 26 <sup>th</sup> 2004

#### 3.3.2. Correspondence

The Correspondence has been always a prime concern and simple rules has been set since beginning of each Project and all parties concern has been requested to obey diligently as follows:

- Correspondence to be on English language and translated into Russian;
- Letters to be answer with in 21 days;
- Letters to contain a reference;
- All attachments to be accompany with cover letter;
- Incoming letters to be numbered and dated;
- Received letter to be signed and dated by the person who receive it;
- Fax/Email is acceptable as an early bird document, however the original letters are to be submitted and signature obtain as soon as possible.

Proper filing system of incoming and outgoing letters has been created for each Project separately in order to avoid misunderstanding and confusion. To date the following numbers of letters has been issued:

**Table 2**

#### Incoming letters from Contractors

Contracts	Total to date	Total this month
Contract CW 2002-1	188	11
Contract CW 2003-1 & CW 2003-2	175	37
Contract CW 2003-3 & CW 2003-4	152	42
Contract for bridges	84	0
<b>Summary</b>	<b>599</b>	<b>90</b>

#### Incoming letters from Client



Contracts	Total to date	Total this month
Contract CW 2002-1	50	3
Contract CW 2003-1 & CW 2003-2	14	0
Contract CW 2003-3 & CW 2003-4	13	1
Contract for bridges	0	0
Summary	77	4

#### Outgoing letters to Contractors

Contracts	Total to date	Total this month
Contract CW 2002-1	261	14
Contract CW 2003-1 & CW 2003-2	226	55
Contract CW 2003-3 & CW 2003-4	188	55
Contract for bridges	144	0
Summary	819	124

#### Outgoing letters to Client

Contracts	Total to date	Total this month
Contract CW 2002-1	120	1
Contract CW 2003-1 & CW 2003-2	27	7
Contract CW 2003-3 & CW 2003-4	29	7
Contract for bridges	0	0
Summary	176	15

#### 3.4. Incoming request for inspections

Table 3

Month: October

Year 2004

Day	Date	CW2002-1	CW2003-1&2	CW2003-3&4	Total
Tue	26	3	15	22	40
Wed	27	3	18	20	41
Thu	28	6	14	23	43
Fri	29	2	13	23	38
Sat	30	2	12	20	34
Sun	31	3	9	20	32

Month: November

Year 2004

Day	Date	CW2002-1	CW2003-1&2	CW2003-3&4	Total
Mon	1	5	19	22	46
Tue	2	7	16	20	43
Wed	3	6	15	24	45
Thu	4	0	17	23	40
Fri	5	0	4	2	6
Sat	6	0	16	3	19
Sun	7	12	18	18	48
Mon	8	11	13	21	45
Tue	9	7	16	17	40
Wed	10	8	12	12	32

Thu	11	0	5	11	16
Fri	12	0	4	8	12
Sat	13	2	6	12	20
Sun	14	0	9	15	24
Mon	15	7	13	13	33
Tue	16	7	17	14	38
Wed	17	3	23	21	47
Thu	18	0	12	16	28
Fri	19	0	17	19	36
Sat	20	6	18	22	46
Sun	21	3	21	26	50
Mon	22	3	18	27	48
Tue	23	2	9	14	25
Wed	24	6	15	8	29
Thu	25	3	19	15	37

**Total:**

**1081**

### 3.5. Daily Weather Records

#### 3.5.1. For Contract 2002-1

**Table 4**

**Month: October**

**Year 2004**

Day	Date	Temp	Weather Condition	Working Condition	Remarks
Tue	26	30C	Sunny	Work in progress	
Wed	27	28C	Sunny	Work in progress	
Thu	28	27C	Sunny	Work is not	
Fri	29	29C	Sunny	Work in progress	
Sat	30	28C	Sunny	Work in progress	
Sun	31	28C	Sunny	Work in progress	

**Month: November**

**Year 2004**

Day	Date	Temp	Weather Condition	Working Condition	Remarks
Mon	1	32 C	Sunny	Work in progress	
Tue	2	28C	Sunny	Work is not	
Wed	3	16C	Rainy	Work is not	
Thu	4	13C	Rainy	Work is not	
Fri	5	14C	Rainy	Work is not	
Sat	6	16C	Foggy	Work is not	
Sun	7	13C	Foggy	Work in progress	
Mon	8	16C	Foggy	Work in progress	
Tue	9	16C	Sunny	Work in progress	
Wed	10	13C	Foggy	Work in progress	
Thu	11	11C	Rainy	Work is not	
Fri	12	12C	Rainy	Work is not	
Sat	13	9C	Rainy	Work is not	
Sun	14	10C	Rainy	Work is not	



Mon	15	14C	Foggy	Work in progress	
Tue	16	16C	Sunny	Work in progress	
Wed	17	16C	Foggy	Work is not	
Thu	18	13C	Rainy	Work is not	
Fri	19	15C	Sunny	Work in progress	
Sat	20	14C	Sunny	Work in progress	
Sun	21	8C	Foggy	Work in progress	
Mon	22	6C	Foggy	Work in progress	
Tue	23	3C	Foggy	Work in progress	
Wed	24	10C	Sunny	Work in progress	
Thu	25	11C	Sunny	Work in progress	

### 3.5.2. For Contract 2003-1&2

**Month:** October

**Year** 2004

Day	Date	Temp	Weather Condition	Working Condition	Remarks
Tue	26	25C	Sunny	Work in progress	
Wed	27	24C	Sunny	Work in progress	
Thu	28	23C	Sunny	Work in progress	
Fri	29	23C	Sunny	Work in progress	
Sat	30	24C	Sunny	Work in progress	
Sun	31	24C	Sunny	Work in progress	

**Month:** November

**Year** 2004

Day	Date	Temp	Weather Condition	Working Condition	Remarks
Mon	1	24C	Sunny	Work in progress	
Tue	2	24C	Sunny	Work in progress	
Wed	3	19C	Foggy	Work in progress	
Thu	4	18C	Rainy	Work in not	
Fri	5	18C	Rainy	Work in not	
Sat	6	19C	Foggy	Work in progress	
Sun	7	19C	Sunny	Work in progress	
Mon	8	19C	Sunny	Work in progress	
Tue	9	19C	Sunny	Work in progress	
Wed	10	18C	Rainy	Work in progress	
Thu	11	18C	Foggy	Work in not	
Fri	12	18C	Sunny	Work in progress	
Sat	13	18C	Sunny	Work in progress	
Sun	14	18C	Sunny	Work in progress	
Mon	15	18C	Sunny	Work in progress	
Tue	16	17C	Sunny	Work in progress	

Wed	17	17C	Sunny	Work in progress	
Thu	18	17C	Sunny	Work in progress	
Fri	19	17C	Sunny	Work in progress	
Sat	20	11C	Sunny	Work in progress	
Sun	21	10C	Rainy	Work in progress	
Mon	22	12C	Sunny	Work in progress	
Tue	23	13C	Sunny	Work in progress	
Wed	24	15C	Sunny	Work in progress	
Thu	25	15C	Sunny	Work in progress	

### 3.5.3. For Contract 2003-3&4

<b>Month: October</b>					
<b>Year 2004</b>					
<b>Day</b>	<b>Date</b>	<b>Temp</b>	<b>Weather Condition</b>	<b>Working Condition</b>	<b>Remarks</b>
Tue	26	20C	Sunny	Work in progress	
Wed	27	21C	Sunny	Work in progress	
Thu	28	20C	Sunny	Work in progress	
Fri	29	22C	Sunny	Work in progress	
Sat	30	22C	Sunny	Work in progress	
Sun	31	21C	Sunny	Work in progress	

<b>Month: November</b>					
<b>Year 2004</b>					
<b>Day</b>	<b>Date</b>	<b>Temp</b>	<b>Weather Condition</b>	<b>Working Condition</b>	<b>Remarks</b>
Mon	1	22C	Sunny	Work in progress	
Tue	2	23C	Sunny	Work in progress	
Wed	3	19C	Sunny	Work in progress	
Thu	4	18C	Sunny	Work in progress	
Fri	5	18C	Rainy	Work in progress	
Sat	6	18C	Rainy	Work is not	
Sun	7	20C	Sunny	Work in progress	
Mon	8	21C	Sunny	Work in progress	
Tue	9	22C	Sunny	Work in progress	
Wed	10	22C	Sunny	Work in progress	
Thu	11	21C	Sunny	Work in progress	
Fri	12	23C	Sunny	Work in progress	
Sat	13	22C	Sunny	Work in progress	
Sun	14	22C	Sunny	Work in progress	
Mon	15	23C	Sunny	Work in progress	
Tue	16	18C	Sunny	Work in progress	
Wed	17	18C	Sunny	Work in progress	
Thu	18	18C	Sunny	Work in progress	
Fri	19	19C	Sunny	Work in progress	
Sat	20	19C	Sunny	Work in progress	
Sun	21	18C	Sunny	Work in progress	
Mon	22	12C	Sunny	Work in progress	



Tue	23	13C	Sunny	Work in progress
Wed	24	15C	Sunny	Work in progress
Thu	25	16C	Sunny	Work in progress

### 3.6. Environmental impact

This report deals with the environmental consideration during the Construction phase for all three projects to date - Road rehabilitation Project Contracts: CW2002-1, CW2003-1&2 and CW2003-3&4. Its covers the period from commencement of the first Project Contract CW2002-1 – March 2003 to date and take into account the environmental requirements detailed in Project documents.

#### 3.6.1. Environmental impact – around the Project construction site (Vegetation and Land used)

In order to minimize the environmental impact around the project construction site, the Contractors have been limited working close to their Project site as follows:

- **For contract CW2002-1** – Letter 62 dated October 22<sup>nd</sup>, 2003 has been issued with instruction to the Contractor: "...to proceed with cleaning and grubbing as specify with in the Contract documents both embankment sides along the Road for a width starting from shoulder break point all the way to but not more than one meter from the toe of the design rehabilitated embankment..."
- **For Contracts CW2003 -1 to Cw2003-4** – The Earth Works have started and similar instruction as above has been issued.

#### 3.6.2. Environmental impact – Borrow pits

- **For Contract CW2002-1.** Prior approval the following Borrow pits have been sampled and tested:

Table 5

Name	Chainage	Site	Km to C/L	Material to be use for	Remark
1	Km 0+200	RHS	0.5	Embankment fill	Approved
2	Km 2+300	RHS	1.2	Sub grade and embankment fill	Approved
3	Km 3+240	LHS	0.7	Sub grade and embankment fill	Approved
4	Km 12+712	RHS	1.5	Sub grade and embankment fill	Approved
5	Km 8+500	LHS	1.5	Sub grade and embankment fill	Approved
6	Km 12+000	LHS	1.5	Sub grade and embankment fill	Approved
7	Km 24+680	LHS	2.0	Sub base	Approved
8	Km 26+680	RHS	1.0	Sub base	Approved

- **For Contracts CW2003-1&2.** The Contractor requested to develop the following Borrow pits and material samples have been taken for testing and approval:

Table 6

Name	Chainage	Site	To C/L	Material to be use for	Remark
(1)Dallier	Km 1+500	LHS		Embankment fill	Approved
(2)Wine plant	Km 8+000	RHS		Sub grade and embankment fill	Approved
(3)Zayam-Chay	Km 19+000	RHS		Sub grade and embankment fill	Approved
(4)Asrik-Chay	Km 35+000	RHS		Sub grade and embankment fill	Approved
(5)Tovuz-Chay	Km 40+000	RHS		Sub grade and embankment fill	Approved

- **For Contracts CW2003-3&4.** The Contractor requested to develop the following Borrow pits and material samples have been taken for testing and approval:

Table 7

Name	Chainage	Site	To C/L	Material to be use for	Remark
(1)Channel	Km 45+000	LHS		Embankment fill	Approved
(2)Gasau Su	Km 56+000	RHS		Sub grade and embankment fill	Approved
(3)Agstafa-Chay	Km 73+000	LHS		Sub grade and embankment fill	Approved

Please note that however for Contracts CW2003-1&2 and CW2003-3&4 sampling and testing has been done and preliminary approval granted, but the Contractor did not forwarded those Borrow pits for formal approval yet. Details on Borrow pits at the addendums



### 3.7. Safety on Projects

#### 3.7.1. Traffic Management Plan – Detours/Deviations

Safety is prime concern and Traffic Management plan has been required by each of the Contractors. After the approval has been obtained the Contractor (Turan) installed the warning signs and traffic warning lights wherever required. Azerkorpu – Azwirt Consortium and Autobahn Bau – Traffic Management plans have been forwarded and approved by local authorities. Road safety signature is in place.

##### 3.7.1.1. Access to properties

The Contractors maintained at all times accesses to the private properties.

##### 3.7.1.2. Traffic Controllers

During short term Works operation Contractors have utilized flagman, with personnel on each end of the restricted controlling section of the Road. For longer sections have been utilized warning lights in combination with flagmen.

##### 3.7.1.3. Detour/Deviation

When the progress of Works demanded removing the traffic from the section of the Road detours/deviations has been utilised. Contractor prior opening of deviation has agreed the trace and the required traffic road signs with the local and traffic authorities and obtain the necessary approvals. For Contracts CW2002-1 and CW2003-1 to 4 the deviations have been choose to run on the existing old road Ganja- Shemkir running parallel to the Project rehabilitated. Contract CW2003-1 to 4 detour sketch plans as attached at the addendums.

Table 8

Projects	Contracts	Contract Length	Detour Length	%	Maintenance this month		
					Satisfactory	Good	Excellent
Ganja-Shemkir	CW2002-1	20,680.00	21.00	100	Yes	-	-
Shemkir to Km 430.8	CW2003-1	19,000.00	0.00	0	-	-	-
	CW2003-2	21,000.00	5.00	25	Yes	-	-
Km 430.8 to Gazakh	CW2003-3	21,000.00	15.00	71	Yes	-	-
	CW2003-4	12,000.00	0.00	0	-	-	-

#### 3.7.2. Work related accidents

Table 9

Projects	Contracts	Contractor	Work accidents	
			This month	To date
Ganja-Shemkir	CW2002-1	Turan Hazinedaroglu &Oztash	0	0
Shemkir to Km 430.8	CW2003-1	Azerkorpu and Azwirt	0	0
	CW2003-2	Consortium	0	0
Km 430.8 to Gazakh	CW2003-3	Autobahn Bau GMBH	0	0
	CW2003-4		0	0

#### 3.7.3. Traffic related accidents

Table 10

Projects	Contracts	Contractor	Traffic accidents	
			This month	To date
Ganja-Shemkir	CW2002-1	Turan Hazinedaroglu &Oztash	0	0
Shemkir to Km 430.8	CW2003-1	Azerkorpu and Azwirt	0	0
	CW2003-2	Consortium	0	0
Km 430.8 to Gazakh	CW2003-3	Autobahn Bau GMBH	0	0
	CW2003-4		0	0

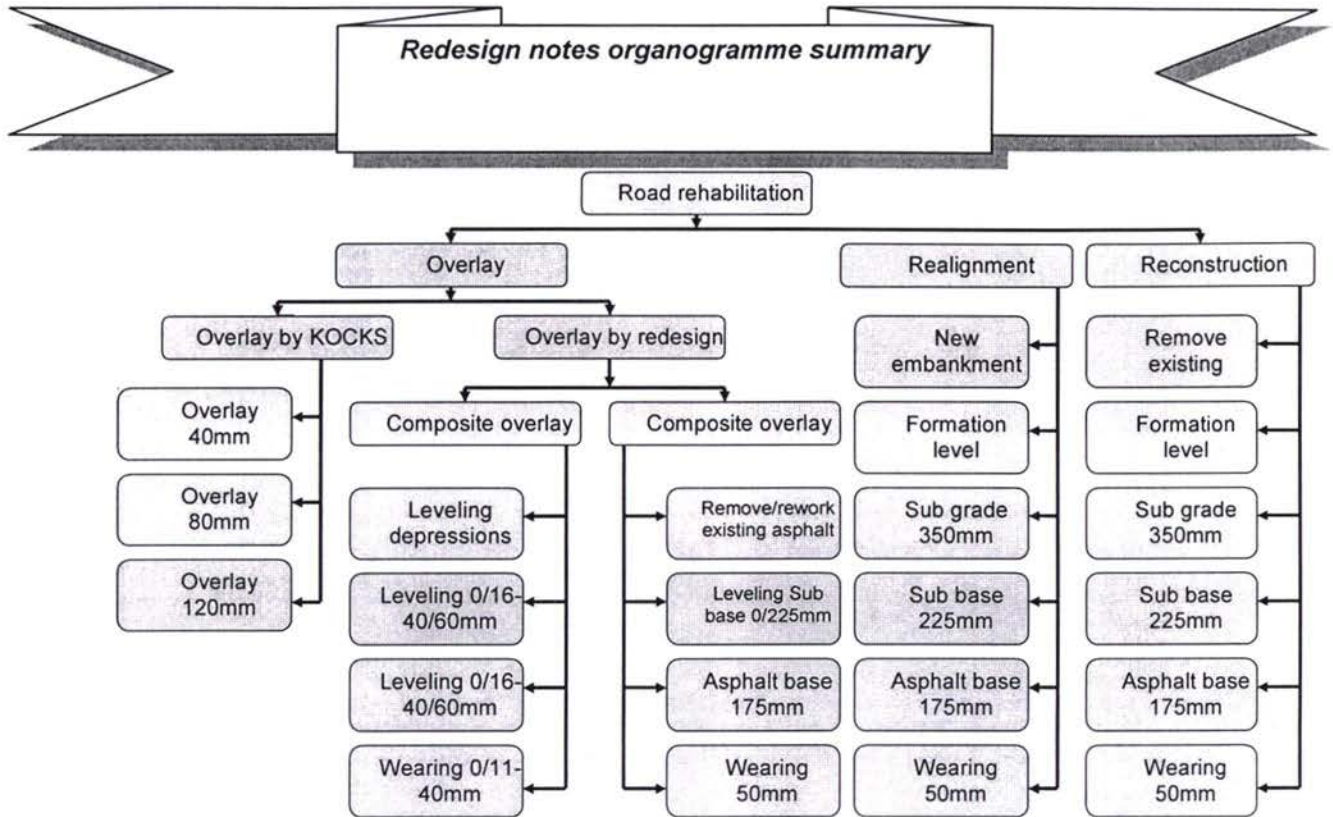


### 3.8. Redesign notes applicable for Contracts CW2003-1 to 4

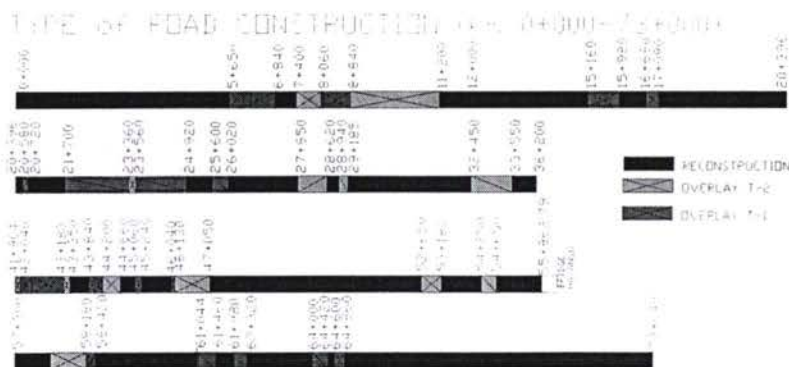
#### 3.8.1. General notes

1. Original design calls for Overlay (40,80 and 120mm) and Reconstruction where ever indicated in the Contract drawings
2. Redesign conditions set by June 29, 2004 meeting are as follows:
  - The redesign must be prepared with diligent consideration and based on the conditions of Contract
  - The redesign volumes of Earth Works must be as close as possible and should not be more of the volumes of Works shown in the Project B&Q;
  - The redesign must provided quality Road with technical characteristic for the II type of Road and prime concern is to focus on the smooth riding quality surface;
  - The redesign is to incorporate the Project deflection analysis's done by KOKCS (Reconstructions section are to remain reconstruction and the Overlay sections are to be upgraded only after checking the possibilities to remain overlay);
  - Base on comparing the existing ground undulation and prescribed longitudinal gradient and cross fall (slope) from the Project documents for particular overlay section, designers are to propose upgrading (if required) suitable with the existing conditions and design technical parameters;
  - The redesign might keep where ever overlay is recommended by the project only when should be possible for Contractor to do the necessary corrections/leveling courses to the existing surface and should not in any way require the Contractor to copy the existing surface, the way the original design do.
3. The way the redesign has been done
  - a) First step is checking the possibilities for Overlay sections to remain as in the original design. Checking includes comparison between the existing ground elevation and Proposed by KOCKS longitudinal gradient for a particular overlay section. If the results show that min required thickness of Overlay (measured at the end of carriage way - 3.75 from the center line) been prescribed is obtainable and at the same time the proposed longitudinal gradient is the one prescribed into the Project document then this section is to remain Overlay. However for practical reasons wherever the length of such road section is less than 100m' and Contractor shall have technical difficulties to produced good quality of road then the section is to be upgraded simultaneously with the proposed by the redesign adjacent sections;
  - b) Then the second step - If particular section did not respond to the Conditions above the design is to recommend a solution;
  - c) Redesign introduced a Composite Overlay. The Composite Overlay represent two different types of modification on Overlay where the deflection test done are taken as fact non questionable and fundamental base and then designers concentrate on the improving the riding comfort and the way of not to copy existing surface but rather provide the Contractor with tools and means to leveled and improve the existing surface, which is not provided by the original design;
  - d) The fist type of Composite Overlay introduced - provide and incorporate the Contractor with tools originally prescribed and described only with in the original Project for 80mm Overlay, which is leveling course – 0/16 thickness 40/60mm (please note that such an option is not available for 40 and 120mm overlay). The redesign checked the longitudinally and cross falls options whether the Contractor might with one leveling course fix up and compensate for the longitudinal undulation in plan and profile and whether the required cross fall can be achieved. If that is not possible then the redesign provide the Contractor with option to lay down second leveling course in order to get to required longitudinal and cross fall slopes. Then the remained wearing course 0/11 thickness of 50mm is to add strain to pavement and provide riding comfort and seal and waterproof the road surface;
  - e) The second type of Composite Overlay – is base on the fact that deflection test done by KOCKS shown that the road base is good and acceptable and then concentrates on getting good riding surface. For that purpose calls the Contractor to remove the existing asphalt, recycle the removed material and placed back as a Sub base layer in order to provide good smooth riding surface. Then follows by asphaltting base (binder 175mm and wearing course 50mm). This type is very similar to the reconstruction, but since there is not a need for capping layer (Sub grade) and work on formation level is considerably cheaper.

### 3.8.2. Organogramme



### 3.8.3. Type of Construction for different locations.





### 3.9. Summary estimate extra cost to Contracts CW2002-1 and CW2003-1 to 4

Table 11

Summary of preliminary estimated extra cost to Contracts CW2002-1; CW2003-1&2 and CW2003-3&4								July 28, 2004
Item	Contracts	Original Contract Price (AZM)	Revised at date Price (AZM)	Expected to date Savings (AZM)	Expected to date Extra (AZM)	Discount 5%	%	Expected Extra (US\$)
1	CW2002-1	29,903,403,179.00	29,755,540,898.94	0.00				1\$ = 4891
1.1	Final measurements to date (+) estimates for remaining Works				3,134,143,195.61		10.53%	\$640,798.04
1.2	Few Contractor's proposals for improving quality of end product if accepted by Client							
1.2.1	Seangle seal to shoulder - to improve on waterproofing				440,190,000.00		1.48%	\$90,000.00
1.2.2	Pavement on approach roads to in and out of petrol station				293,460,000.00		0.99%	\$60,000.00
1.2.3	Drainage in front of petrol station				122,275,000.00		0.41%	\$25,000.00
1.2.4	Site drain collectors on high embakment to take the rain waters				293,460,000.00		0.99%	\$60,000.00
	<b>Subtotal on extra and final for Project</b>				<b>4,283,528,195.61</b>		<b>14.40%</b>	<b>\$875,798.04</b>
2	CW2003-1&2	60,082,264,241.00	60,214,171,978.85	3,009,034,085.10				1\$ = 4912
2.1	Design errors = underestimated volumes of Work in B&Q				4,143,089,493.00	4,039,512,255.68	6.88%	\$843,462.84
2.2	Design errors = extra existing culverts				1,115,376,655.00	1,087,492,238.63	1.85%	\$227,071.79
2.3	Design errors = overlay to composite overlay				10,940,986,361.70	10,667,461,702.66	18.17%	\$2,227,399.50
2.4	Collapse of Bridge 39				4,676,215,995.00	4,442,405,195.25	7.77%	\$951,998.37
2.5	Design errors = Client request for extra work on Bridge 42				2,701,600,000.00	2,566,520,000.00	4.49%	\$550,000.00
2.6	Extra over for unexpected miscellaneous during construction				2,456,000,000.00	2,456,000,000.00	4.08%	\$500,000.00
2.a	<b>Subtotal on extra cost only</b>				<b>26,033,268,504.70</b>	<b>25,259,391,392.21</b>	<b>43.23%</b>	<b>\$5,299,932.51</b>
2.b	<b>Subtotal extra cost as final for Project</b>				<b>23,024,234,419.60</b>	<b>22,250,357,307.11</b>	<b>38.24%</b>	<b>\$4,687,344.14</b>
3	CW2003-3&4	45,937,384,407.14	45,937,384,407.14	2,102,612,533.86				1\$ = 4912
3.1	Design errors = underestimated volumes of Work in B&Q				448,819,100.00	N/A	0.98%	\$91,371.97
3.2	Design errors = extra existing culverts				1,332,468,328.00	N/A	2.90%	\$271,267.98
3.3	Design errors = overlay to composite overlay				6,410,121,472.06	N/A	13.95%	\$1,304,992.16
3.4	Extra over for unexpected miscellaneous during construction				3,974,622,052.00	N/A	8.65%	\$809,165.73
3.a	<b>Subtotal on extra cost only</b>				<b>12,166,030,952.06</b>	<b>N/A</b>	<b>26.48%</b>	<b>\$2,476,797.83</b>
3.b	<b>Subtotal extra cost as final for Project</b>				<b>10,063,418,418.20</b>	<b>N/A</b>	<b>21.91%</b>	<b>\$2,048,741.53</b>
4	Total	135,923,051,827.14	135,907,097,284.93	5,111,646,618.96	42,482,827,652.37	41,708,950,539.88	31.26%	\$8,652,528.38
4.1	Total as final				37,371,181,033.41	36,597,303,920.92	27.50%	\$7,611,883.71
Notes	VO2 for CW2002-1 is AZM147,862,280.86						26.93%	
	VO1 for CW2003-1&2 is AZM131,907,737.85							

### 3.10. Guest visiting the Projects

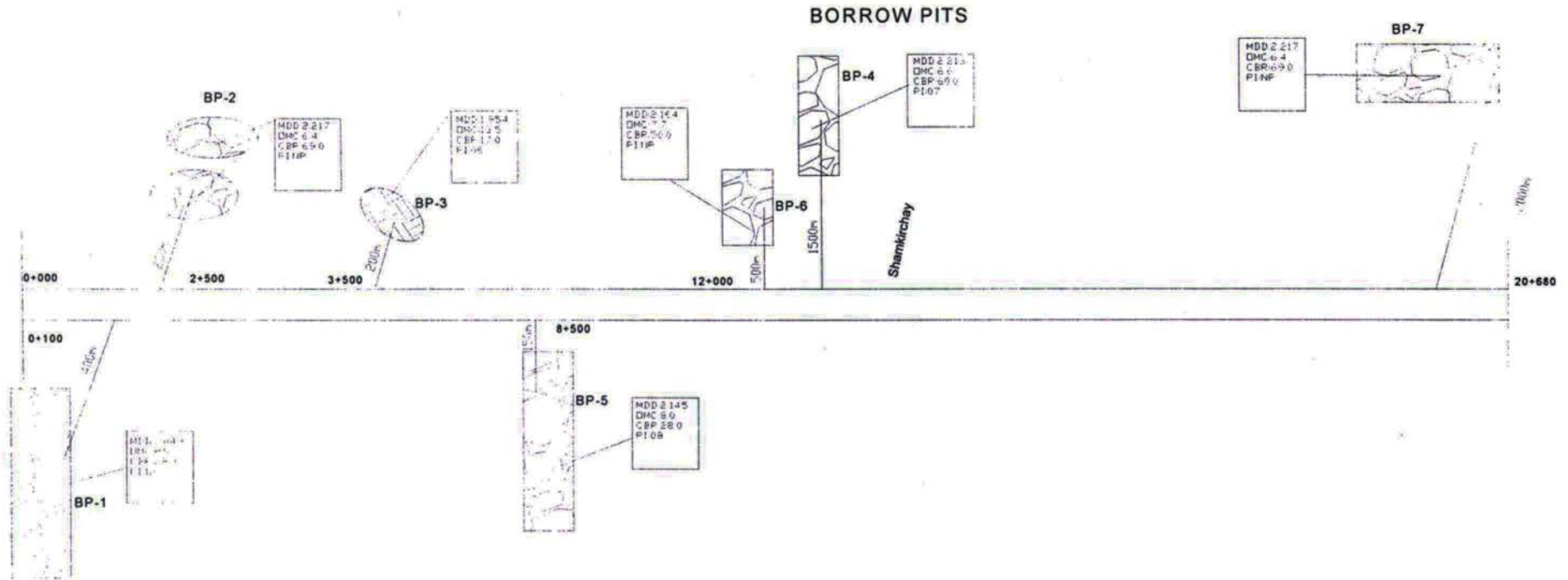
Table 12

Name	Position	Date of the Visit
Adil Gojayev	PIU director	16th November 2004
Gazanfar Safarov	PIU Procurement Specialist	16th November 2004
Magerram Asadov	Chief Expert of the Department	30th November 2004
Gasimov Nazim	Head of the Tech. Office of the Department	30th November 2004

## Attachments

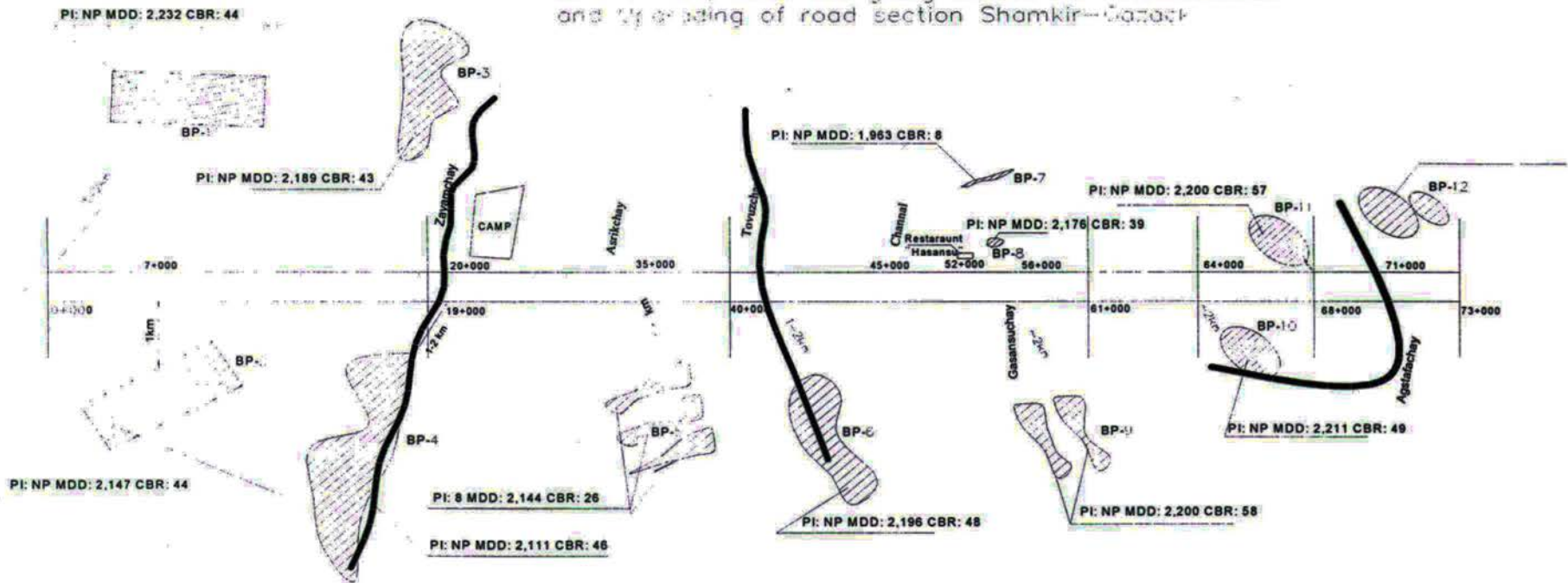


**"REHABILITATION AND UPGRADING OF GANDJA-SHAMKIR ROAD SECTION"**



**Contract CW2002-1 Borrow pits**

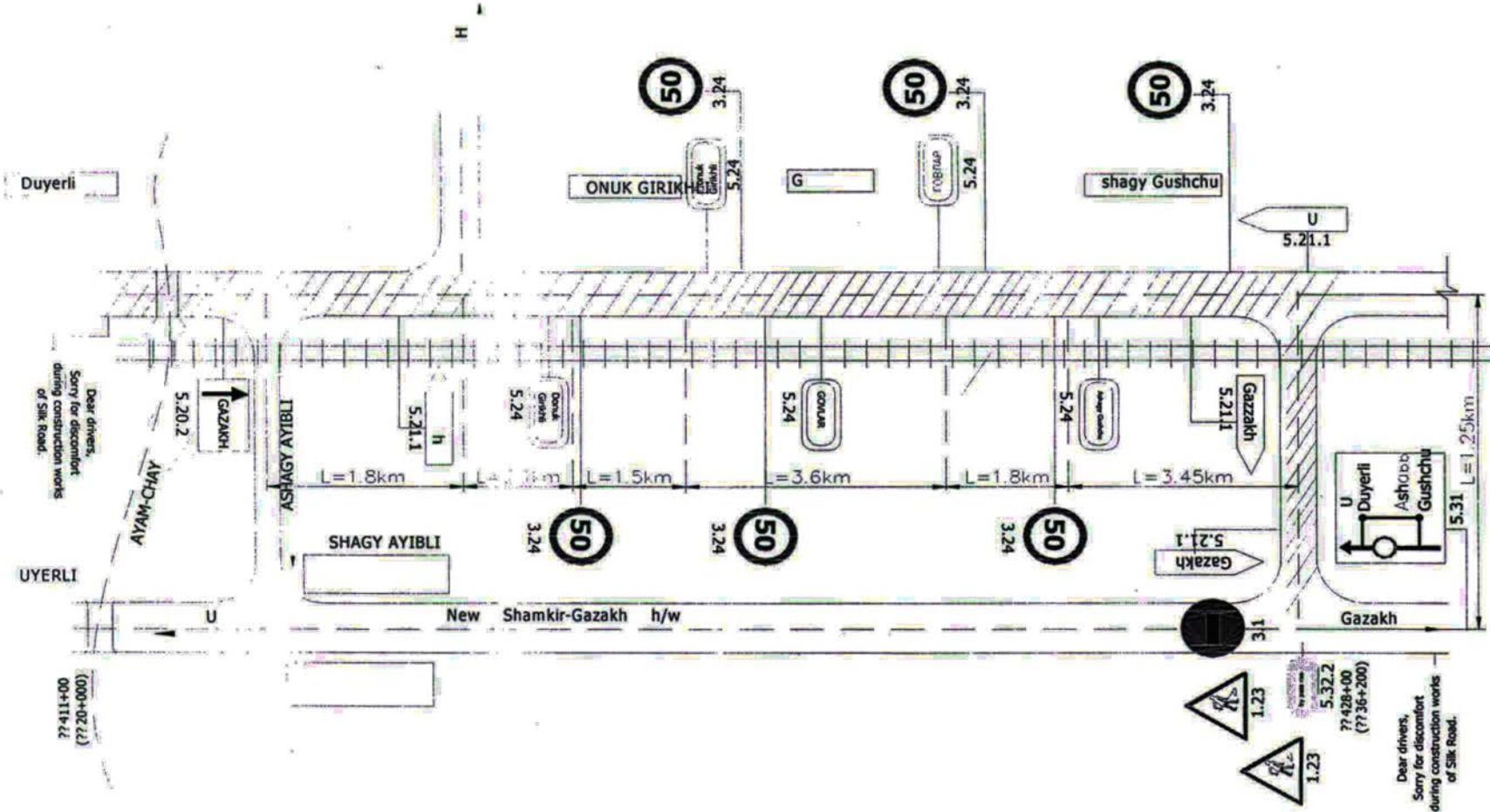
Borrow pits, which are going to use for Rehabilitation and upgrading of road section Shamkir-Gazak

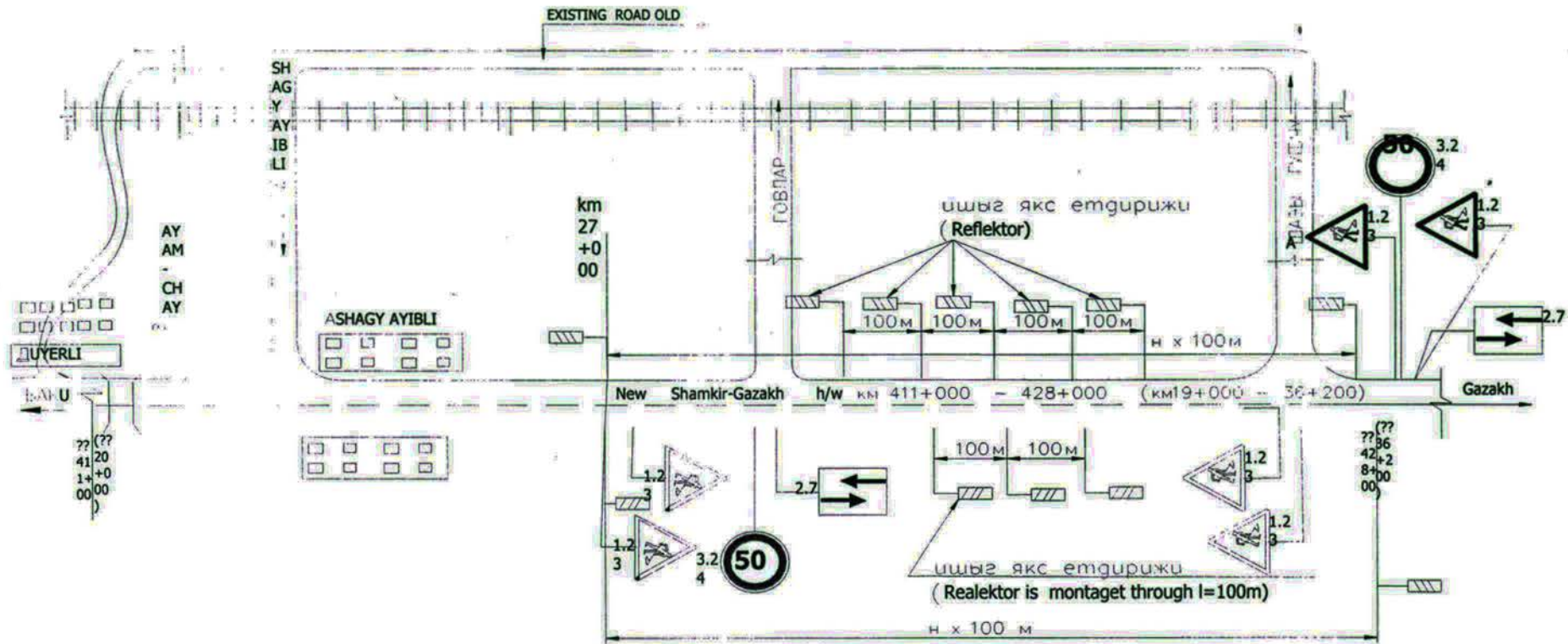


Contracts CW2003-1&2 and CW2003-3&4 proposed Borrow pits areas





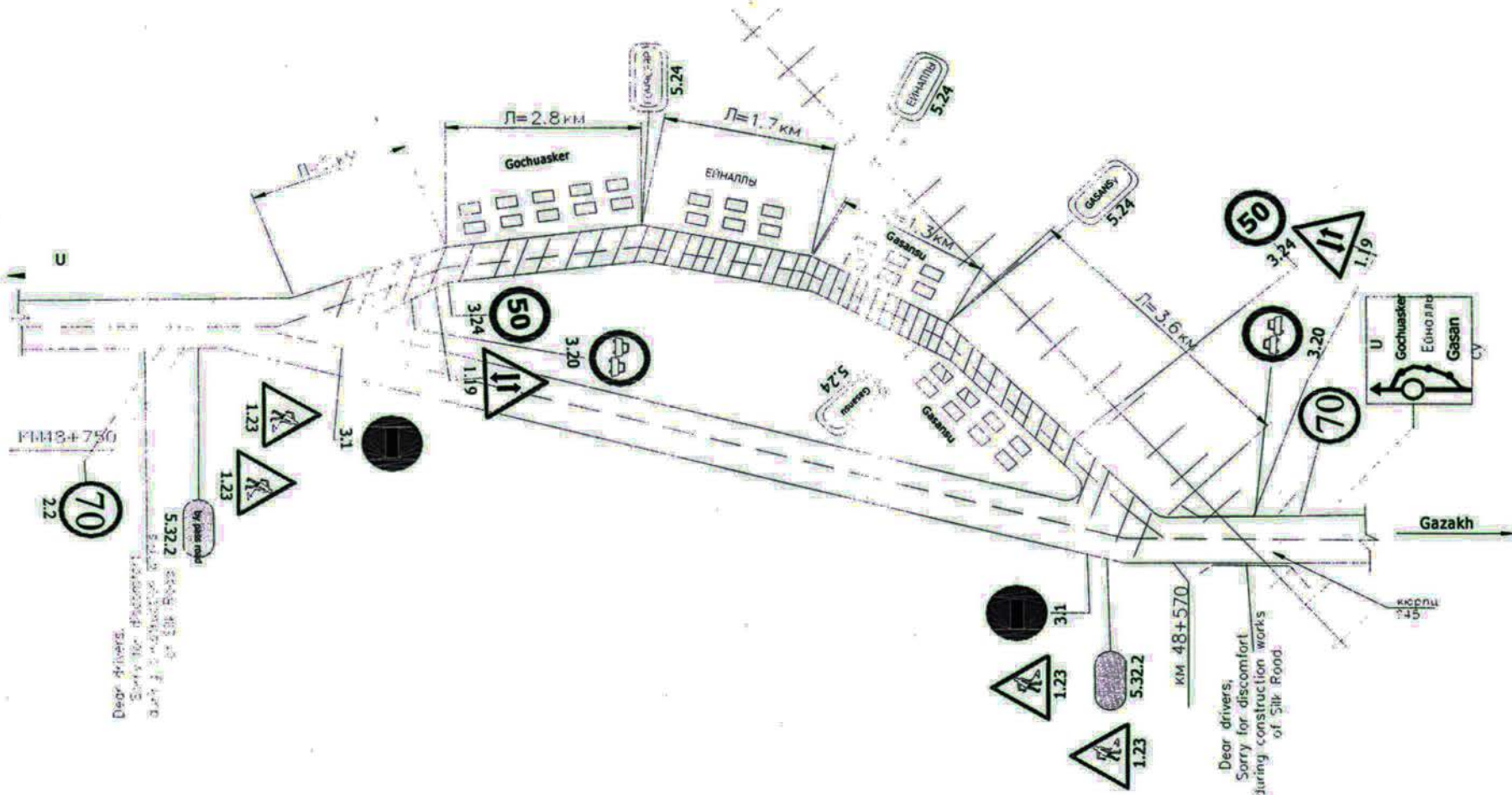




Contracts CW2003-1&2, single line operation at the Earthworks taking place between km 27+000 to km 37+000



Contracts CW2003-3&4, detour at the Earthworks between km 48+750 to km 58+570



**Notes**



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