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# MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN

THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

# FINAL REPORT

**VOLUME III** 

**APPENDICES** 



JULY 1996

JAPAN BRIDGE & STRUCTURE INSTITUTE, INC., TOKYO PACIFIC CONSULTANTS INTERNATIONAL, TOKYO



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### JAPAN INTERNATIONAL COOPERATION AGENCY ROAD DEVELOPMENT AUTHORITY MINISTRY OF HEALTH, HIGHWAYS AND SOCIAL SERVICES

# MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN

# THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

# **FINAL REPORT**

**VOLUME III** 

APPENDICES

JULY 1996

JAPAN BRIDGE & STRUCTURE INSTITUTE, INC., TOKYO PACIFIC CONSULTANTS INTERNATIONAL, TOKYO

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# Appendix - A

### MEMBER LISTS OF COMMITTEES AND TEAMS

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1.	Member of Steering Committee	A - 1
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4.	Member of Japan International Cooperation Agengy (JICA)	A - 2
5.	Member of Advisory Committee	A - 3
6.	Member of JICA Study Team	A - 3

Position	Designation	Name of Person
Chairman	General Manager, Road Development Authority	Mr. P. B. L. Cooray
e e	(RDA)	
Member	Director,	Dr G. L. A. J. de Silva
: :	Engineering Services, RDA	
Member	Assistant Director,	Mr. M. G. E. Perera
	Engineering Services, RDA	
Member	Deputy Director,	Mr. R. G. Rajapakse
	Traffic & Planning, RDA	(~ 1995-7)
Member	Deputy Director,	Mrs. S. S. Senanayake
	Traffic & Planning, RDA	( 1995. 6 ~)
Member	: Deputy Director,	Mrs. H. Y. Fernando
	Bridge Design, RDA	
Member of To	chnical Committee	
Position	Designation	Name of Person
Chairman	Director	Dr. G. L. A. J. de Silva
	Engineering Services, RDA	
Member	Assistant Director.	Mr. M. G. E. Perera
	Engineering Services, RDA	
Member	Deputy Director,	Mr. R. G. Rajapakse
	Traffic & Planning	(~ 1995.7)
Member	Deputy Director,	Mrs S S Senanayake
	Traffic & Planning, RDA	( 1995. 6 ~)
	Deputy Director,	Mr. H. Y. Fernand
Member		
Member	Bridge Design, RDA	
Member Member	Bridge Design, RDA Chief Engineer,	Mr. H.M.K.G.G. Banda
		Mr. H.M.K.G.G. Banda

# A - 1

# Member of Counterpart Team

3.

4.

Position	Designation	Name of Person
Chief Counterpart	Director, Engineering Services, RDA	Dr. G. L. A. J. de Silva
Counterpart	: Engineer, Traflic & Planning, RDA	Mr. K. Sivanathan
Counterpart	: Engineer, RDA	Mr. L. V. S. Weerakoon
Counterpart	: Engineer, RDA	Mr. S. Bakeerathan
Counterpart	: Engineer, RDA	Mr. H. A. Wickramsinghe

# Member of Japan International Cooperation Agency (JICA)

Positio	<u>n</u> :	<b>Designation</b>	Name of Person
Coordi	nator	Social Development Study Department, JICA Headquarters	Mr. Toshihisa Hasegawa (Mar. 1995 to Aug. 1995)
Coordi	nator	: Social Development Study Department, JICA Headquarters	Mr. Toru Naito (Sep. 1995 ~ )
Coordi	nator	Personal Depertment JICA Headquarters	Mr. Takamitu Kinoshita (May 1996)
Coordi	nator	Assistant Resident Representative, JICA, Colombo Office	Mr. Shinji Yoshiura

A - 2

5.	Member of Advi	sory Committee		
•	Position	Designation	Name of Person	
	Chairman	: Road Planning Officer Road Department	Mr. Yasuhiro Ni	shimura
·		Tohoku Regional Construction Bu Ministry of Construction	ireau,	
. • •	Member	: Deputy Manager Research Division,	Mr. Seigo Nasu (~ Ma. 1996)	
- - - -		Planning & Development Dept. Honshu-Shikoku Bridge Authority	<b>y</b>	
Ŧ	Member	: Manager of Engineering	Mr. Shigeku Ya	namoto
		Management Division, First Maintenance Department Second Operation Bureau Honshu-Shikoku Bridge Authority	y	
		A Cut Ja Taana		
6.	Member of JIC.	A Study Leam		
	Designation	Name of I	<u>Person</u>	
,	Team Leader / R	ridge Planning Mr. Hiros	hi Namba	

# Team Leader / Bridge PlanningMr. Hiroshi NambaTraffic Planning / Traffic DemandMr. Isamu GunjiBridge Rehabilitation PlanningMr. Akio KasugaBridge Design (1)Mr. Kazuo KataokaBridge Design (2)Mr. Kiyohisa HariyaMaintenance / Management PlanningMr. Yasuo FurukawaEconomistMr. Teruhiko Horie

Environmental

Mr. Masami Miyadera

# Appendix - B

# MINUTES OF MEETINGS

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).	Minutes of Meeting held on 6th April, 1995	B - 1
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3.	Minutes of Meeting held on 20th May, 1996	B - 8

# MINUTES OF MEETING ON THE INCEPTION REPORT FOR THE MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA AGREED UPON BETWEEN ROAD DEVELOPMENT AUTHORITY

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

COLOMBO, 6TH APRIL, 1995

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Mr K.S.C. de Fonseka Chairman Road Development Authority Ministry of Health, Highways & Social Services

L. Chaulter

Mr Hiroshi Namba Team Leader JICA Study Team Japan International Cooperation Agency JICA Study Team submitted the Inception Report of the Master Plan Study on Bridge Development in the Democratic Socialist Republic of Sri Lanka to the Road Development Authority (RDA) on 31st of March, 1995. Joint meetings between the Sri Lankan and Japanese sides were held on 4th and 5th of April, 1995 for the presentation and discussion on the Inception Report. The attendants of the meetings appear in the Attendants list attached.

During the joint meetings, the Sri Lankan and the Japanese sides discussed and confirmed the following subjects:

1. Submission of the Inception Report

The Study Team submitted 20 copies of the Inception Reports to RDA. RDA acknowledged the receipt of the Reports and agreed to the contents therein in principle.

Main items agreed upon by both sides are as follows:

1)

2)

3)

4)

2.

The study area will cover the Northern and the Eastern Provinces, if the safety of these areas could be confirmed (Chapter 1, 1.4).

Considering the objectives of the Study, the Master Plan should cover all bridges on A routes and the selected bridges on B routes, which include the 28 bridges scheduled to be repaired/improved with aid from the Kuwaiti government. Eventually, the second sentence of Operation 6, Chapter 2 (page 7) should be deleted.

The Study Team and RDA agreed that bridge inspection forms and bridge rehabilitation record forms attached to the Inception Report should be reviewed and modified as required. (Chapter 2, Operation 7, page 9).

Since there is a variety of bridge design conditions and design records are not available for all the bridges, it is difficult to repair bridges under the same design standard. Therefore, the Study Team should consider an appropriate standard allowable for the Master Plan Study. As a consequence, the third and fourth sentences of Operation 9, Chapter 2 (page 18) should be deleted.

Are

B - 2

The Study Team requested Sri Lanka side to provide a complete list of bridges on A routes and to reconfirm every contents of inventory of selected bridges.

5)

6)

The Study Team requested Sri Lanka side to provide a suitable office space, office equipment and a permanent counterpart personnel. Sri Lanka side replied that the Study Team can choose the office space from two alternative places and RDA will provide a permanent counterpart personnel.

B - 3

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# LIST OF ATTENDANTS

### Road Development Authority

- 1. Mr K.S.C. de Fonseka, Chairman
- 2. Mr P.B.L. Cooray, General Manager
- 3. Dr G.L. Asoka de Silva, Director, Engineering Services
- 4. Mrs H.Y. Fernando, Deputy Director, Bridge Design

Advisor to RDA

1. Mr Takeo Kai, JICA Expert, Engineering Services/Advisor

JICA Advisory Committee

Mr Yasuhiro Nishimura, Chairman, Advisory Committee Mr Seigo Nasu, Member, Advisory Committee

**JICA Coordinator** 

1.

2.

1.

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2.

1. Mr Toshihisa Hasegawa, JICA Headquarters

JICA Sri Lanka Office

Mr Shinji Yoshiura

Study Team

Mr H. Namba, Leader, Study Team Mr I. Gunji, Member, Study Team

B - 4

Am

### MINUTES OF MEETING ON THE INTERIM REPORT FOR THE MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

AGREED UPON BETWEEN

ROAD DEVELOPMENT AUTHORITY

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

COLOMBO, 19TH OCTOBER, 1995

Dr. G.L. Asoka de Silva for General Manager Road Development Authority Ministry of Health, Highways & Social Services

Mr. Hiroshi Namba Team Leader JICA Study Team Japan International Cooperation Agency JICA Study Team submitted the Interim Report of the Master Plan Study on Bridge Development in the Democratic Socialist Republic of Sri Lanka to the Road Development Authority (RDA) on 10th of October, 1995. Joint meetings between the Sri Lankan and Japanese sides were held on 18th and 19th of October, 1995 for the presentation and discussion on the Interim Report. The attendants of the meetings appear in the Attendants list attached.

During joint meetings, the Sri Lankan and Japanese sides discussed and confirmed the following subjects:

1. RDA accepted the selection of 101 bridges for the preliminary bridge inspection and the selection of 10 representative bridges for detailed survey.

2.

4.

5.

6.

The Study Team pointed out that the ten bridges selected for detailed survey are not bridges that are required urgently to be rehabilitated. They are selected mainly in consideration of different types of construction and also the age of the bridges. The selected bridges have no relation with respect to new projects proposed for the new future rehabilitation.

3. The Study team pointed out that the substandard shown in Table 8.5 of the report can be applied only in respect of the width of bridges to be considered for Repair and Reinforcement (Chapter 8, 8 - 8).

As for the design live loading for repair and reinforcement, present specification used by RDA can not be applied as the design load that has been considered for the existing old bridges at the time of construction is unknown. As such, RDA has no objection for the application of the Japanese specification of 1973.

The Study Team again requested RDA to submit the list of about 3,700 bridges on A and B class roads which RDA is now preparing during the second site study term in order to prepare the guideline for the bridge maintenance and rehabilitation.

After the meeting had discussed and taken note of above points, RDA accepted, in principle, the Interim Report.

**B** - 6

An

# LIST OF ATTENDANTS

### Road Development Authority

1.	Mr. P.B.L. Cooray	General Manager
2.	Dr. G.L. Asoka de Silva	Director, Engineering Services
3.	Mrs. H.Y. Fernando	Deputy Director, Bridge Design Div.
4.	Mrs. S.S. Senanayake	Deputy Director, Traffic & Planning Div.
5.	Mr, D.K. Rohitha Swarna	Senior Engineer, Bridge Design Div.
6.	Mr. H.M.K.G.G. Bandara	Chief Engineer, Planning, Traffic & Planning Div.
	A Advisory Committee	

### ommittee

1.	Mr. Yasuhiro Nishimura 🥂	Chairman, Advisory Committee
2.	Mr. Seigo Nasu	Member, Advisory Committee

# JICA Study Team

- 1. Mr. Hiroshi Namba
- 2. Mr. Akio Kasuga Mr. Kiyohisa Hariya 3. Mr. Kazuo Kataoka 4.

Team Leader, Study Team Member, Study Team Member, Study Team Member, Study Team

the

### MINUTES OF MEETING ON THE DRAFT FINAL REPORT FOR THE MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

AGREED UPON BETWEEN

ROAD DEVELOPMENT AUTHORITY

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

COLOMBO, 20TH MAY, 1996

11

Mr. P. B. L. Cooray General Manager Road Development Authority Ministry of Health, Highways, & Social Services

Dunta

Mr. Hiroshi Namba Team Leader JICA Study Team Japan International Cooperation Agency

B - 8

The Study Mission consisting of the JICA Advisory Committee, JICA Coordinator and Study Team had a series of presentations and discussions on the Draft Final Report of the Master Plan Study on Bridge Development in Sri Lanka with the RDA from 16th to 17th May, 1996. The attendants of the meeting appear in the Attendants List attached.

During joint meetings, the Sri Lanka and Japanese sides discussed and confirmed the following subjects :-

- Submission of the Draft Final Report RDA acknowledged the receipt of the Reports on 2nd May.
- 2. Main items agreed upon by both sides are as follows :-
  - 1) RDA accepted the contents of the Report in principle.
  - 2) RDA requested the Study Team to submit the results of subletted works such as survey maps, soil investigation reports, loading test reports and strength test of steel samples. The Study Team replied that these data will be submitted to RDA after approval of JICA Headquarters.
  - 3) RDA agreed that the Final Report of the Study is to be opened to the public.
  - 4) As for the design live loading for repair and reinforcement, RDA accepted the design live loadings proposed by the Study Team in Chapter 3.8 of Summary of the Draft Final Report (ref. Clause 4 of the Minutes of Meeting on the Interim Report dated on 19th October, 1995).
  - 5) The Study Team requested to RDA to submit comments on the Draft Final Report to JICA Sri Lanka office by 19th of June, 1996. RDA agreed the matter.
  - 6) RDA informed that the total numbers of bridges of 4,720 managed by RDA shall be amended to about 4,430. RDA will give the data to the Study Team before the Study Team leaves for Japan.
  - 7) RDA informed that the word AB-class roads should be deleted as they are actually A-class roads. The Study Team agreed to amend the matter in the Report.
  - 8) RDA pointed out that the some of unit prices and project cost shall be reviewed on the part of profit and overhead. The Study Team agreed to review the matter and amend in the report if necessary.
  - 9) RDA informed that the ratio of foreign and local components of project cost shall be 67% and 33% respectively. The Study Team agreed to amend the ratio in the cost estimation.

B - 9

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### LIST OF ATTENDANTS

### Road Development Authority

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5. 6.

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Mr. P.B.L. Cooray Dr. G.L. Asoka J. de Silva Mrs. H.Y. Fernando Mrs. S.S. Senanayake Mr. D.K. Robitha Swarna

Mr. H.M.K.G.G. Bandara

General Manager Director, Engineering Services Deputy Director, Bridge Design Div. Deputy Director, Traffic & Planning Div. Senior Engineer Design, Bridge Design Div. Chief Engineer, Planning, Traffic & Planning Div.

### JICA Advisory Committee

Mr. Shigeki Yamamoto

Member, Advisory Committee

**JICA Coordinator** 

1. Mr. Takamitsu Kinoshita

JICA Headquarters

JICA Sri Lanka Office

Mr. Shinji Yoshiura

### JICA Study Team

Mr. Hiroshi Namba
 Mr. Akio Kasuga
 Mr. Kazuo Kataoka
 Mr. Yasuo Furukawa

ili

Team Leader, Study Team Member, Study Team Member, Study Team Member, Study Team

B - 10

Appendix - C

C - 9

# LIST OF 206 BRIDGES TO BE REHABILITATED

Note: Attached List of 206 Bridges is a computer output of bridge database of RDA and was provided to the Study Team by RDA.

## LIST OF CONTENTS

1. List of 206 Bridges to be Rehabilitated ..... C - 1

3. List of 3 Additional Bridges to be Inspected .....

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5.49	5.49	IRCB/RCS 57.70	1 1933 1 RCB/RCS 57. 701 5. 49	1933 1 KC8/KCS 57.70
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# Appendix - D

### DATA OF SOCIO-ECONOMIC FRAMEWORK AND TRAFFIC DEMAND ANALYSIS

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١.	Estimated Traffic Growth Ratio	D - 1
2.	Road Improvements Completed, Ongoing, and Proposed	D - 11
3.	Estimated Future Population by District	<sup>-</sup> D - 15

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D-1 Estimated Vehicle - Km and Growth Ratio by Section Route A and AB

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Norm         Norm <th< th=""><th>2.5</th><th>SOUTE</th><th>ROAD KAXE</th><th>SITE</th><th>2</th><th>- 8</th><th>2</th><th>NODE</th><th>revised VehXa</th><th>revised VehXa</th><th>revised VehKa</th><th>V. rev</th><th>2000/1995</th><th>10 Ratio 2005/2000</th><th>2010/2010</th></th<>	2.5	SOUTE	ROAD KAXE	SITE	2	- 8	2	NODE	revised VehXa	revised VehXa	revised VehKa	V. rev	2000/1995	10 Ratio 2005/2000	2010/2010
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AMOCK       Colombo - Ratranura - Vellawaya - Batticalca       1004008       430.57       270       121       122       0.0       0		Colombo - Ratnapura - Ve	allaveya - Batticaloa.			14	115	131 131	11904	15228.3	19848.7	26165.04	1.28	1.30	1.32
AK004       Colombo - Ratmaura - Fellawaya - Batticalca       1004008       430.57       270       121       122       21420       27165.74       354.06.06       46280.22       1.27 <td< td=""><td>53 A4004</td><td>Colombo - Patrovira - Mo</td><td></td><td></td><td></td><td>ន្ត</td><td>) </td><td></td><td>0,004</td><td>073-01570</td><td>68973</td><td>16-12606</td><td>1.23</td><td>1.31</td><td>1.32</td></td<>	53 A4004	Colombo - Patrovira - Mo				ន្ត	) 		0,004	073-01570	68973	16-12606	1.23	1.31	1.32
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A100X       Colombo - Ratapura - Wellawaya - Batticalca       430.57       265       123       125       0 </td <td>500X 63</td> <td>Colombo - Ratnapura - Fe.</td> <td>illawaya - Batticaloa</td> <td>• •</td> <td>430.57</td> <td>827</td> <td>661</td> <td></td> <td>0</td> <td>00</td> <td>0</td> <td>Ġ</td> <td>0</td> <td>0</td> <td>10</td>	500X 63	Colombo - Ratnapura - Fe.	illawaya - Batticaloa	• •	430.57	827	661		0	00	0	Ġ	0	0	10
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D-1 Estimated Vehicle - Km and Growth Ratio by Section Route A and AB

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· · ·	0 0 0	86490.11 22776.85	00	00	93963.87	133707.3	000	278509.4	0 53973.83 83594.16	000	66122.08 0	000	0 152802.5	00	251035 88443.6	000	311062.9 80113_75	00	000	40457.16 4052.666	0
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OF LLOCAT	279-30	279.30	279.30	•	195.00	195.00	195_00 195_00	195.00	195.00	115.00 116.00	116.00	116.00 116.00	8	67.68 67.68	320.99	320,99 320,99	320.99	320.99	320.39 320.39	320.99	•
SITE NO.		100505		· · ·	100601	100502	100603	DOF/D		100701	100702	100703	10001	100803		106001 100001		600001			
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ROAD NAVE	Peradeniya - Badulla - Chenkaladi Peradeniya - Badulla - Chenkaladi	henkaladi.	berkaladi.	henkaladi	Avbepussa - Kurunegala - Trincomalee	Ambepussa - Kurunegala - Trincomalee	Ambepussa - Kurunegala - Irincomalee Ambepussa - Kurunegala - Irincomalee	Arbepussa - Kurunegala - Trincomalee Arbepussa - Kurunegala - Trincomalee	Ambepussa - Kurunegala - Irincomalee	Avissavella - Katton - Nuvara Eliya Avissavella - Katton - Nuvara Eliya	wara Eliya	Artsoneria - Fatton - Nuwara Litya Avissevella - Hatton - Nuwara Eliya Avissavella - Hatton - Nuwara Eliya	i trapura	i Chapura			•	.:			
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	niya - Ba	Peradeniya - Zedulla - Chenkaladi	Peradeniya - Badulla - Chenkaladi	Peradeniya - Eadulla - Chenkaladr	צבפ ~ געוח	ssa - Kun	558 - Kun 558 - Kun	run - ssa 588 - Xuru	ssa - Xuru	vella - Ha vella - Ha	ella - Ha	rella - Ha rella - Ha	Panadura - Nambapana - Katnapura Panadura - Nambanana - Reference	Panadura - Nambapana - Ratnapura	Kandy - Jaffna	Kandy - Jaffna Kandy - Jaffna	- Jeffna	Kandy - Jaffna Kandy - Jaffna	Jaffna Jaffna	Kandy - Jaffna	Kandu - Taffaa
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ROUTE NO.	74 A4005 75 A4005	76 . M005	77 AA005	2001	TS AAOOS	79 AA006	A4005 A4005	A4005 A4005	2000A	85 AA007 86 AA007	A4007 44007	A4007 A4007	A4008 A4008	A4005	50057	500AA	A4009	600YY	44009 44009	SCCVV	101 44009

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D -1 Estimated Vehicle - Km and Growth Ratio by Section Route A and AB

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th Ratio 2005/2000		1.28	1-35	5	2	1.29	1.36	38°	1.40					97.7 7	1.23	00	003		1.37
Crows 2000/1995		1.30	1.30	1.35	1.32	1.30	1.32		67-1	·			÷		1.22	00	0 0 1.25		1.42
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SITE NO.	101001	101002				101201 101202 101202	101204			101301		•	101601	101602		101702 101703	:	700707	101803
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	Kandy - Jaffna Katugastota - Kurunegala - Puttlan	Katufastota - Kurunegala - Puttlam Katugastota - Kurunegala - Puttlam	Katufastota - Kurunegala - Puttlam Katufastota - Kurunegala - Puttlam	Maradawala Nabarana Tirikkondiadimadu	Naradankadavela Habarana Tirikkoodiadimadu Maradankadavela Habarana Tirikkoodiadimadu Maradankadavela Habarana Tirikkoodiadimadu	Puttalam - Trincomalee Puttalam - Trincomalee Puttalam - Trincomalee	Puttalan - Trincomalee	Puttalam - Trincomelee	Puttalar - Trincomalee	Galkulama - Anuradhapura Galkulama - Anuradhapura	Medavachchiya - Mannar - Talaimannar Medavachchiya - Mannar - Talaimannar	Batticaloa - Tirikkondiadimadu - Trincomalee	Beragala - Kali-Ela	Beragala - Kali-Ela	Galle - Deniyaya - Madampe	Galle - Deniyaya - Nadampe Galle - Deniyaya - Nadampe	vaire - veniyaya - Kadampe Polmadulla - Embilipitiya - Nonagama	· Embilipitiya - Embilipitiya -	Pelmadulla - Emoilipitiya - Nonagama
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5002/0102		1.3	50.1 1		8.1	2	Ř		<u> </u>		1.30		1.36				÷	i !	1.35		1.32	
th Ratio		1.38	1 3E		62 T	<b>2</b>	1.24				1 23	·	1.36	-					1-36	Υ.	1.32	
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	85.00 85.00	11.86	14.50	41.94 41.94 41.94	32.18	30.27	20.21	57.12	101.40	101.40	57.92	88 8.5	46.01	35.80	24.14	98.38	16.70	16.70	49.25	52.13	• •	· · ·
SITE NO.	101201	101301	100201	102101	102201	102301	102401		102601 102602	102661		102801 102802	•				103301				v 1 1. 1.	
		· · ·																			· · ·	•
SVAD NAVE	Pelmadulla - Indilidituya - Nonagama Pelmadulla - Embilidituya - Nonagama	Polgahevela -Kegalle	Anurachapura - Ranbeva	Kegalle - Bulathkohugitiya - Karawanella Kegalle - Bulathkohugitiya - Karawanella Kegalle - Bulathkohugitiya - Karawanella	Passara * Moneragala	Yellavaya - Eila - Kumbalwela	Matara - Akuressa	Siyambalanduwa - Damana - Ampara	Kandy - Mahiyangana - Padiyatalawa Kandy - Mahiyangana - Padiyatalawa Kandy - Mahiyangana - Padiyatalawa	Kandy - Mahiyangana - Padiyatalawa Kandy - Mahiyangana - Padiyatalawa	Ampara - Uhana - KahaOya	Anuradhabura - Padeniya Anuradhabura - Padeniya	Vavuniya – Horowopotana	Vavuniya - Parayanalankulan	Karatiw - Ampara	Navathkuli - Karativu - Mannar	Ja-Ela - Ekala - Gampaha - Yakkala Ja-Ela - Ekala - Gampaha - Yakkala Terena - Ekala - Gampaha - Yakkala	a that I that I handle - Yakkala	אמנאראשע אמעדוגא	čaranthan - Kachchai - Mullaitivu	A Total	
Ser ROUTE	130 AA016 131 AA018	132 AADIS	133 AA020	134 AN021 135 A4021 136 A021	137 AA022	136 AA023	139 AA024		A4026 A4026 A4026	144 AA026 145 AA026		147 M028 146 M028	149 A4029		15014	152 M022	ISS MOSS ISS MOSS ISS MOSS	ALD'S		COUNT ICT	~	

D - 1 Estimated Vehicle - Km and Growth Ratio by Section Route A and AB

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5002/0102						7	22	000	00	00	1000	1.32		100	000	00	38°%
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revised VehKa 2005					1461	0	00	00	000	0	20000	219169 26262 26262 59715	0	00	000	200 321 8	11625
revised VehKm 2000					1105	13187	o'c		oc	0	0000	166037 123020 21410 45241	32040	٥Ģ	000	20 C	5026 5026
revised VehXm 1995					823	0836	••	000	00	0 41165	0000	125786 93197 16220 34273	0 24272	00	000	sol3	2805 2805 2805
NODE NODE A 3					the Road	•			•		· · · · · · · · · · · · · · · · · · ·	· ·				:	
TACIT OF LOCAT NO ROAD LON A		19.79	12.66 12.66 12.66 12.66 12.66 12.66 12.66 12.66 12.65 12.65	0.48	0.08 Center of t	2.46 1	0.05	1.13	0.51	2.40 2	24.94 2 24.94 9 24.94 9		.bb .61 Bridge	9.5	200	.39 .43 0	6.44 2 1.00 1.21 6.03 6.03
									<b>C</b>		24	isoda Uyana)					
Several Advances of the several s		kmpara - Inginiyegala	<pre>Anurachapura New Town Roads (4) Harrishchandra Nawatha (5) Naithripala Semanywire Mawatha (2) Dharmapala Nawatha (3) Yarket Junction To Lion Pillar (1) Jayanthi Nawatha (3) D.S.Semanayake Nawatha</pre>	Approach Road to Campola Bridge	Approach Road to Kadurela Bridge	Approach Road to Sri Jayewardenepura Hospital	Avissawella Town Road	Balangoda By Pass	Bandaravela By Pass	Canada Friend-ship Road	Colombo - Harwella Low-Level Road Colombo - Harwella Low Level Road Colombo - Harwella Low Level Road	Galle Road New Deviation (Cross Junc. to Egoda Uyana) Galle - Marine Drive Gampola - Navalapitiya Mospital - Esplande road Ratherner	Inner ring Road and Pelavatte Access Road Tathe - Kankeentum:	Jaffna - Manipay - Karainagar Jaffna - Palali	Jaffna - Panuai - Kayts Jaffna - Point Pedro	Jaina Tronnalal TPoint Pedro Jail Road, Rambantota Malattere - Viel T	Amatures - Astair Junction Link Road Dambuila Lion Pillar - Sri Maha Bochi Road Matale - Udupihilla
NOTE NOTE	Xoute A3	100EV 351	A3002 A3002 A3002 A3002 A3002 A3002 A3002 A3002	A3003	ABOOK	166. AB005	169 A3006	170 A3007	171 A3008	12009	AB010 AB010 AB010					13021	

D-1 Estimated Vehicle - Km and Growth Ratio by Section Route A and AB

1.130     0	Sec ROUTE No. ROUTE NO.	EVAN GAOA	SITE NO	OF LOCAT	A NODE	B WODE	revised VehKa 1995	revised VehKu 2000	revised VehKn 2005	revised VehKa 2010	Crow 2000/1993	Crowth 2005/2000	2010/200
Old Colondo - Pretalua Ruad, ja Fila     0.35     0	12 AB027 13 AB027 14 AB027	016 Colombo - Calle Road, Panadura 016 Colombo - Calle Road, Panadura 014 Colombo - Calle Road, Panadura		1.90		-	00		00	00		00	
Pasyala - Circlulla     113 <td>5 AB028 6 AB028</td> <td>01d Colombo - Puttalar Road, ja Ela 01d Colombo - Puttalar Road, ja Ela</td> <td></td> <td>a (1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997</td> <td></td> <td></td> <td>8504 O</td> <td>0 11357 0</td> <td>0 14992 0</td> <td>0 19783 0</td> <td></td> <td>030</td> <td>1.32 0</td>	5 AB028 6 AB028	01d Colombo - Puttalar Road, ja Ela 01d Colombo - Puttalar Road, ja Ela		a (1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997) - 1997			8504 O	0 11357 0	0 14992 0	0 19783 0		030	1.32 0
Prendikary - Sargerjeky         Logori Lass         Logori Lass <thlizz< th=""></thlizz<>		Pasyala - Giriulla Pasyala - Giriulla		- · ·	•		7143	0 6256 0		0 16429 0		0 22 0	1.32
District - Mecalai       0	1202V 0	Poonakary - Sangupiddy Puloly - Kodikanam - Kachchai			· · · ·		10201	134734		0 234761 0	H	0.22 0	0 22 0
Section A = 3 XET ION ROLD. Retrapure       1.55 Upper lawity read. [alle       0	1 AS032 2 AS033 3 AS034	Puttur – Xeesalai Subanturai village Road Sea Street. Galle		13.68			000	ဝဝဝဝ	000	000	000	000	000
Valachchemai - Nasamriv - Nwaladi       2.17       1       1.37       1.37       1.37         Valachchemai - Nasamriv - Nwaladi       2.15       0	4 AB035 5 AB036 5 AB037	Section A - B NEW TOWN ROAD, Ratnapura Thalapitiya road, Galle Upper Gampola Road		2.58 2.88 2.88 2.89 2.89 2.99 2.99 2.99 2.9	1		000	000	000	000	000	000	000
Ratelia Deviation       0.64       1       23540       3107       41016       54141       1.22         Religans N Pass       2.16       2       1555       21555       27555       11.22       11.22         Religans N Pass       3.80       2       33312       46532       58915       77767       1.22       1.22         Waliyangana - Dimbulacala - Daluktane       72.60       5       94050       124139       163922       216403       1.22       1.2	7 A3038 8 A5039	Valachchenai - Nasavantiwu - Nawaladi Valukkairaru - Pungudutiwu - Kurikadduwan		5.12 5.12 24.54		- - - - - -	14975	19765 0	26063 26063	34443	1.32	1.32	1-32
Mahiyangara - Diabulagala - Palukkare       1.15       94050       124198       153942       216403       1.32         Avissauela By pass       0       0       0       0       0       0       0       0         Base Line Rd(Between Dematagoda to Level Cross)       2       0	2 V3042	Mattala Deviation Weligama By Pass Getable Kandy By Pass Weliawawa Ry Pace		0.64 4.18 3.80 2.80 2 2		· .	23540 16390 33812	31072 21635 44632	41016 28558 58915	54141 37695 77767	°22220	2838 113	°828
Base Line Rd(Between Dematagoda to Level Cross)       2       0       <	3 AB046 * AB045 * A	Nahiyangana - Dimbulagala - Dalukkane Avissavela By pass		72.60 0.88 0.88			0 0 0 0 0 0 0	0 124198 0	0 163942 0	0 216403 0	1.32	0 22 0	
Maradana Road Maradana Road Maradana Road MC MC MC MC MC MC MC MC MC MC MC MC MC	5 ACOOS	Base Line Rd(Between Dematagoda to Level Cro Lotus Road		69		· · ·	<b>O</b> ,C	00		000	000	000	200
	7 ACO19			2.60 2	-		54543	111605	147319	0 134461	1.32	1.32	1.32
	al /3 & AC			1			741953	979378 979378 1.32	0 1292779 1.32	0 1706468 137	1.32	° 8 8	0 28 1
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West         Start         USA         2000 <th< th=""><th>LENCTH OF PROV 1 ROAD</th></th<>	LENCTH OF PROV 1 ROAD
1100         233         5043         6044         6044	
460         90         2023         2013         2013         2014         20	29 Sout
190         99         9609         11643         13035         1303         1304         130           140         93         93         935(1         70103         11.20         11.9           140         93         2520         355(1         70103         11.20         11.9           140         94         2520         355(1         70103         11.20         11.9           1500         94         25234         30537         153(17         11.6         11.36         11.9           1999         94         20337         153(17         153767         153767         11.9         11.9           1999         94         103378         153767         153767         15376         11.9           1999         94         11311         153075         154463         153757         11.9         11.9           1999         94         11311         140007         11.20         11.9         11.9           1109         94         110106         135378         155378         153671         13.9         13.9           1100         94         97118         14000         11.1         11.1         14.0         11.9 <td></td>	
1030         59         40131         45629         53561         70103         1.20         1.19           740         92         20003         57524         45610         51003         1.20         1.19           740         92         20003         57524         45610         51003         1.20         1.19           1000         94         20033         27524         25004         57035         1.200         1.19           1100         94         10131         1.15107         1.200750         1.2507         1.200         1.19           1100         94         10131         1.050750         1.57075         1.5177         2.0002         1.19           6970         79         10131         1.60007         1.13         1.10         1.10         1.10           6970         79         10131         1.60007         1.13         1.10         1.10         1.10           6971         72         2041         1.0003         1.003320         1.10         1.10         1.10           6972         72         2040         1.2307         1.10         1.2007         1.10         1.10           6972         7241	
1050         93         40131         -3673         53501         73000         1120         <	Ĭ
1050         9.9         -01.21         -555.29         -556.10         515.00         -1.20	
7.00         7.2         25000         35535         4.2610         51009         1.20         1.26         1.26           1000         91         70079         75500         107250         107305         1136         1136           11000         91         70079         75500         107250         113707         1136         1136           11100         94         103536         113816         1179157         113807         113816         117916         1136           1110         94         1035360         1050955         113466         107250         1137         1136         1136           11110         94         1035360         1050955         113465         107355         105066         1136         1136           11110         94         1035567         113606         11376         105066         1136         1140         1140           11110         94         113607         11376         35307         1136         136         136         136           11110         94         113606         11376         136076         1137         136         136         136         136         136         136         136         <	day so
4.30         9.4         2003         277.1         50001         07335         136         136           1 (500         91         20039         75501         105070         156035         156         136           1 (500         91         1003539         135177         156035         166035         136         139         141         140         119           1 (100         91         1035390         12.30739         156035         156035         1366         136         139         111         119         119         119         119         119         119         119         119         111         111         110         111         11	24 Uva
1000         91         57079         7500         107200         127	40 UV3
1050         94         9053         11517         138076         166005         138211         13140         1441         1441         1440           3140         94         113316         113035         113035         113035         11303         1131         1131           670         89         1144         1709         2305         13741         1360         1141         110           710         89         93         1443         1709         2316         1333         1141         116         113         116         111         111         111         111         111         111         111         111         111         112         112         112         112         112         112         111         112         111         111         111         111         111         111         111         111         111         111         111         111         111         111         111         111         111         111         111         112         112         111         111         111         111         111         111         111         111         111         111         111         1111         111         1111	<mark>ም</mark> ንጋ ዓ
11000         94         113516         177013         164036         198871         120           11140         94         1035390         1230795         1230795         1234435         1053530         113116         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1131         1140         1140         1140         1140         1140         1140         1130         1140         1130         1140         1130         1140         1130         1140         11	chin: 10
Series         Series<	daily is
80         93         11343         1709         2336         3174         136         173           700         73         7300         73         7300         73         1343         1709         2346         333443         144         146           7300         73         7300         73         13531         55573         55007         136         136           7300         73         13531         155214         55507         144         146         149           7300         93         75503         550773         550773         55077         144         140         139           7301         7352         75924         75567         1132         1405         140         139           7300         91         5752         75567         1122         1405         123           7300         91         5750         13531         75567         112         111           7300         91         70055         14055         15005         123         126         129           7300         91         91077         14055         1252         12052         120         129           750 <td>28 West</td>	28 West
80         93         1.243         1709         2336         3174         1.36         1.	0 NCP L
670         89         2.4431         2.6428         2.9623         33006         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.2         11.1         11.1         11.1         11.1         11.1         11.1         11.1         11.1         11.1         11.1         11.1         11.1	13Uva
120         93         2084         4104         5600         7621         1136         136           61730         94         123032         12347         157146         254204         353443         140         141         140           61730         94         130322         12347         115322         159544         21177         140         1139           7000         94         130322         135213         159547         1141         140         139           700         91         2343         115322         135311         35557         1141         140         139           7104         94         94         97318         155622         1130         123           7100         91         37941         31571         14955         15662         139           710         91         3700         11517         14955         1306         139           7100         91         39567         1140         139         139         139           7100         91         97318         125622         14055         139         140         139           7100         91         97318         155622<	28 Sab
5/20         22         123/15         181746         224204         35544         1.40         1.39           1000         91         25209         256998         567733         595077         1.40         1.39           1000         91         25200         256998         567733         595077         1.41         1.40           1004         94         27353         74944         97318         15567         1.12         1.11           1200         91         57353         74944         97318         155624         1.30         1.39           1200         91         57353         74944         97318         155624         1.30         1.39           730         91         57353         74944         97318         155624         1.30         1.29           730         91         5700         1.4955         19705         19705         1.20         1.29           750         91         54075         1.4055         1.5002         1.29         1.20         1.39           750         91         57075         1.4055         1.5002         1.29         1.29         1.29         1.29           750	21 UV3
3000         33         50077         1.41         1.40         1.40           430         91         2520         25442         31521         159214         221371         1.41         1.40         1.39           1034         94         27947         31521         353567         1.12         1.11           11200         91         57355         74944         97318         125624         1.20         1.12         1.11           1200         91         57355         74944         97318         125624         1.20         1.12         1.11           730         91         59202         76421         1.120         1.29         1.12         1.11           730         91         59202         76421         1.150         1.29         1.29         1.29           750         91         59202         76421         1.40         1.39         1.40         1.39           750         91         57055         110775         154020         1.40         1.39           750         91         57055         12672         1.40         1.39         1.29           750         91         7657         156020         <	27 West
430         91         2550         2842         5151         5551         5550         112           1         1054         94         27947         31521         55531         50567         1112         111           1         1200         91         57355         74944         97318         125622         1120         1120           730         91         57355         74944         97318         125622         120         129           730         91         57355         749591         55523         75622         130         129           730         91         56273         79199         110775         154020         140         139           730         91         56273         79199         110775         154020         140         139           750         91         56273         79199         110775         154020         140         139           750         91         5665         51224         71657         154020         140         139           750         92         70199         110775         154020         140         139           710         92         510221	27 West
1054         94         2794.7         31521         55331         59367         1.11           1200         91         57355         74944         97318         125622         1.30           730         91         57355         74944         97318         125622         1.30           730         91         54391         45591         59202         76421         1.30           730         91         56273         79199         110775         154020         1.40         1.39           730         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         5667         110775         154020         1.40         1.39           750         91         76075         154020         1.40         1.39           750         91         71647         96617         1.40         1.39           710         91         21052	4 Sout
1054         94         2794.7         31521         55531         59567         1,12         1,11           730         91         57355         7494.4         97318         12562.2         1,30         1,29           730         91         57355         7494.4         97318         12562.2         1,30         1,29           730         91         57355         74959         110775         154020         1,40         1,39           730         91         56273         79199         110775         154020         1,40         1,39           750         91         56273         79199         110775         154020         1,40         1,39           750         91         56273         79199         110775         154020         1,40         1,39           750         92         56273         79199         110775         154020         1,40         1,39           750         91         36656         54420         1,0755         154020         1,40         1,39           750         92         71667         96617         1,40         1,39         1,40         1,39           700         92         7166	II Cent
1200         91         57355         74944         97318         12562         150           730         91         54391         45591         59202         76421         130         129           730         91         56273         79199         110775         154020         1.40         139           730         91         56273         79199         110775         154020         1.40         139           750         91         56273         79199         110775         154020         1.40         139           750         91         56273         79199         110775         154020         1.40         139           750         91         56273         79199         110775         154020         1.40         139           750         92         56273         79199         110775         154020         1.40         139           750         92         56273         79199         110775         154020         1.40         139           760         92         5627         71647         96617         1.40         139           710         92         21224         716677         96617	12 SP
1.00         91         34391         45591         59202         76421         1.30         1.29           730         91         56273         79199         110775         154020         1.40         1.39           730         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         10775         154020         1.40         1.39           760         92         21294         77647         99617         1.40         1.39           1820         93         6110         81224         71647         1.40         1.39           1820         912254         7767         1.202         1.40         1.39         1.40 </td <td></td>	
1         236         92         3814         11517         14955         19705         154020         1.40         1.39           750         91         56273         70199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           750         91         56273         79199         110775         154020         1.40         1.39           940         90         36556         51224         71647         99617         1.40         1.39           1700         92         3656         51224         71647         99617         1.40         1.39           180         92         3011         4510         1.167         1.40         1.39           180         93         51124         71647         10054         1.3014         1.40         1.39           180         93         5112         21294         27294         27216         1.40         1.39           180         93         <	5 Nun
730         91         55.4         94         55.4         94         55.4         94         55.4         94         55.6273         79199         110775         15.4020         1.40         1.39           750         91         55.6273         79199         110775         15.4020         1.40         1.39           750         91         56.375         79199         110775         15.4020         1.40         1.39           940         90         56.396         51224         716.47         996.17         1.40         1.39           400         92         56.305         51224         716.47         996.17         1.40         1.39           400         92         2091         3011         4.510         6132         1.40         1.39           180         92         21524         27216         10034         1.40         1.39           1820         94         17100         873         95         1.2027         1.40         1.39           1820         95         17101         8719         2.0037         1.65         1.40         1.39           1820         95         12716         1.6723         1.6723	JI Sout
554         94         385.55         54.405         7500         91         56.273         79199         110775         15.402         1.40         1.39           750         91         56.273         79199         110775         15.402         10.302         1.40         1.39           940         90         36.396         51224         716.47         99617         1.40         1.39           460         92         15129         21294         2783         41410         1.40         1.39           670         92         3011         -5310         6132         1.40         1.39           700         93         5666         31599         7216         10034         1.40         1.39           700         93         6110         8579         12027         16722         1.40         1.39           700         94         17720         17199         2.405         3.54.43         1.40         1.39           703         95         17710         8712         17722         1.10168         15.405         1.40         1.39           7326         94         1.712         110168         15.405         2.4721         1.1	54 West
750         91         56273         79199         110775         154020         1.40         139           940         90         36396         51224         71647         99617         1.40         139           460         92         15129         21294         29783         41410         1.40         139           460         92         15129         21294         29783         41410         1.40         139           760         92         15129         21294         29783         41410         1.40         139           750         92         5666         31599         7216         10034         1.40         139           700         93         6110         8599         12027         16723         1.40         1.39           700         94         17799         24056         35443         1.40         1.39           7325         94         17799         24056         25473         1.40         1.39           18229         94         17750         19702         216246         1.40         1.39           1038         94         233443         1.40         1.39         1.40         1.39	54 West
940     90     36396     51224     71647     99617     1.40     1.39       460     92     15129     21294     29783     41410     1.40     1.39       715     92     15129     21294     29783     41410     1.40     1.39       715     15129     21294     29783     41410     1.40     1.39       715     15129     21294     2011     4512     1.40     1.39       715     3566     31599     12027     16723     1.40     1.39       700     93     6110     8599     12027     16723     1.40     1.39       715     95     17799     24056     35443     1.40     1.39       7829     94     17750     19794     22186     24721     1.11       7829     94     17750     19794     22186     24721     1.120       1038     94     17753     154090     216246     1.40     1.39       1038     94     17753     154090     216246     1.40     1.39       1038     94     17753     154090     216246     1.40     1.39       1038     94     17050     5383     7647     1.120	54 West
400       92       15129       21254       29783       41410       1.40       1.39         670       92       2091       3011       4310       6132       1.45       1.42         1870       92       5666       5159       7216       10034       1.40       1.39         180       93       56110       8599       12027       16723       1.40       1.39         1829       94       17190       24056       55443       1.40       1.39         1829       94       17199       24056       55443       1.40       1.39         1829       94       17199       24056       55443       1.40       1.39         1829       94       17750       19794       22186       24721       1.11         1829       94       17750       15962       51443       1.40       1.39         1038       94       1733       55063       1.42       1.30       1.39         130       95       410950       51662       55663       1.40       1.39         130       95       5338       7647       1.20       1.39       1.40       1.39         130 <td>10 WCI</td>	10 WCI
100         94         2091         3011         4510         6132         1.45         1.42           180         93         3666         5159         7216         10034         1.40         1.39           300         93         6110         8599         7216         10034         1.40         1.39           300         93         6110         8599         7216         10034         1.40         1.39           873         94         17120         24056         53443         1.40         1.39           1829         94         17550         19794         22186         24721         1.12         1.11           1829         94         17550         19794         22186         24721         1.12         1.11           1829         94         1750         25016         154090         214246         1.40         1.39           130         95         43072         55063         5140         2.39         55065         1.40         1.39           130         95         5338         7647         1.20         1.19         1.40         1.39           1205         53214         35050         576450 <td>20 WCSI</td>	20 WCSI
1.20         2.4         5666         5159         7216         10034         1.40         1.39           300         93         6110         8599         12027         16723         1.40         1.39           300         93         6110         8599         12027         16723         1.40         1.39           300         93         6110         8599         12027         10721         1.40         1.39           1822         94         17550         17994         22186         2472         1.40         1.39           1822         94         17550         19794         22186         2472         1.40         1.39           1822         94         78277         110168         154090         214246         1.40         1.39           1038         94         23012         35662         1.40         1.39         1.39           320         95         53062         1.40         1.30         1.40         1.39           320         95         53062         1.40250         254062         1.40         1.39           320         95         53062         54062         1.40         1.40         1.4	
500         501         500         1010         8599         12027         1672         1.40         1.39           1010         8599         12027         1672         1.40         1.39           1010         8599         24056         53443         1.40         1.39           111         1755         24056         53443         1.40         1.39           111         1272         5216         2116         2472         1.40         1.39           111         111         12409         214246         1.40         1.39         1.30           1038         94         23012         55062         1.40         1.30         1.30           1038         92         5306         1.50         55062         1.40         1.30           1020         95         5305         55062         1.40         1.30         1.30           1020         95         5305         5305         53062         1.40         1.40         1.40           110         11         1.40         1.30         1.32         55062         1.40         1.30           1020         95         5305         5305         540	
500         504         1140         139         24056         53443         140         139           1829         94         17550         19794         22186         2473         140         139           1829         94         17550         19794         22186         2473         111           111         112         111         1216         24266         2412         140         139           1036         94         78277         110168         154090         2142456         1.40         1.39           1020         95         5305         6538         7647         1.20         1.30           1120         120         6388         7647         1.20         1.40         1.40           1020         95         6388         7647         1.20         1.40         1.40           1120         11.10         1.40         1.40         1.40         1.40         1.40           1020         95         5305         57053         57054         1.40         1.40           11065         17020         57053         1.2212         12211         1.40         1.40         1.40	12 Wret
111         1750         19794         22186         24721         112         111           4367         94         73277         110168         154090         214246         140         139           4367         94         73277         110168         154090         214246         140         139           910         95         5305         5305         5305         5305         140         130           920         95         5305         6388         5305         5305         140         1.40           920         92         5305         5305         5305         5305         5407         1.40         1.40           920         94         29106         410950         576640         1.41         1.40           104         94         92418         122402         1.41         1.40         1.40	
7.0         7.4 <th7.4< th=""> <th7.4< th=""> <th7.4< th=""></th7.4<></th7.4<></th7.4<>	16 West
001         021         0505         0	16 West
011         7547         7545         7547         1.20         1.10         1.15           5826         94         204941         291106         410050         576640         1.41         1.40           1665         94         57055         102418         142028         73225         102418         1.40	14 Nwo
94         204941         291106         410930         576640         1.41         1.40           94         52028         73225         102418         142402         1.40         1.40	8 NorEast L
94 51028 73225 102418 142402 1.40 1.40	29 West
	29 West

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					4 U V							
Ser		2004	T OC T		T V KeV		Kevised Re	Revised R	Revised	Growth Ratio	110	
No. ROUTE	TE ROAD NAME				2 × ×	2001	0000		Veh-km	56/00	02/00	10/05
		<u></u>	§ .5	T' DIEC	- •.	C661	0007	2005	2010		÷	
507 B247		64 NWD	5. 538	4571	94	309782	375381	452047	54112K			
208 8247		64 N.MD	48 K.m	0110	35	201447	244105	293960	351900	1 20	1 10	
		21 Sout	5 k.m	2210	32	59719	67355	75497	12178	1.12		
		é Cent	E S S	320	52	2301	3239	4530	6298	1.40	01	0
			EF1S	1091	2	58314	70662	\$\$094	101866	1.20		01.1
		-	NOTEX-	: .	•							
		20. NNP	55	2030	54	43520	52736	63506	70024	00.1	0.1	
	Marawija - Uduboddawa	20 Nup	.16 km	1270	- 89	10++0	-1686	\$0200	76009	000	× •	
		7 NorEast L	Notex		•	-1			****	A.4.4	61.1	21.1
		13 West	5 K.m	3100	92	- 52544	73951	103433			1	
	Minuwangoda - Compaha - Miniswatte	13 West	13 L m	8450	20	72251	212500		410071	1,40	<u>65.1</u>	1.38
	-	5 West	1 F. W	2818	3	51675		607/07	CC1504	1,41	1.40	021
	Nuttetugala - Hiriplaya	10 /111	01.11		ŗş	77010	07997	200001	145249	1.41	 	95.1
570 8704	Nacoda - Kalaweilawa - Bellanatiwa					40001	24021	22449	26874	1.20	61.1	1.19
571 B304	Nanoda - Kalawellawa - Bellaning		E Yo	717	3	16-76	230480	522368	118218	97. I	67.1	1.38
572 B304	Naooda - Valaurationa - Dattering	DO WORL	8 4 B	2000	91	153858	216545	502874	11114 -	07-1	02	\$2.5
		56 West	28 X.H	2100	8	175283	246696	345049	479754	1 40		
	Vagour Autoworkwan Octopicya	S6 West	57 L.B	000	16	46157	29619	90362	126734			1
	Nagoda · Aalawelawa · Bellapitya	56 West	10707	1-107	54	34741	119267	166815	020120			1
	Naula - Elahera - Kaluganga	33 Cent	14 1.00	310	91	14171	1004	00020	()()) ()())			27-1
	Negombo - Cinulia	58 West	10 k.m	4868	50	203560	2801<2	402170	76707	)	<b>V</b> J	27
	Negombo - Giriulia	38-West	20 kim	1570	0	17870		41100t	00/7/0	19-1	07.1	60.1
	Negembe - Ciriutia	33 West	E Tyc	7110	03.	122406			7/0007	1.40	1.39	1.38
608 8552	Nuwara Elivo - Uda Pussellavva					+>+>+	44007	220204	290010	1.40	6E.I	1.38
609 B332	Nuvera Elive - Ude Pussellawa		E - A - C	22	<b>x</b> 8	01839	87033	121731	169254	1.40	9 <u>5</u> .1	1.38
622 B344	Padiruphu Vollaveli			0/c	. 76	21740	30597	42796	59503	1.40	و <del>د</del> .1	1351
	Palarathurla . Calantela		XHON		•							
627 8349	Palavi - Kaleitist	28 Cent	15 Y 3	221	54	10220	14384	20118	27972	1.40	1 10	22
055 B350		40 Nwp	16 L m	1410	• 56	56724	68736	82775	00006	00		
UVLA CTY	Polocosts - Contractions - 197 - 1		XHON									
	Defaution that the second state - 1 million of a Morayaka		12 K.A	- 227	24	13098	18434	74784	. 02322			6 • •
	relations - Moravakia - Tinnyawela - Morawaka	55 Sout	46 k.m	480	92	31.83	4074K	1104.9		04.1	¥1.	30.1
	relavate - Ankolayavata - Tinniyawela - Morawaka	55 Sout	42 Y.m.	- 420	6	2255	12221			0¢.1	2	27-1
	L'OUVEL + L'ERSERS	्र इ	X HON		2			1 4 7 0 4	.09/60	1.50	8	1.1
6/53 700	Puttalam + Nanchchikadar	-	Xalox				•		•	÷		
	Laigodapitiva . Votowatte . Dombawala	:	2	1261	0	~~~~	22112			•		
21-5 840	Javalantenne - Talavokela	34 Cent	E 191	X71				44000	7.1.5	1.20	1.19	1.19
706 8419	Thoppu - Madampe	27 Num			į		0202	12638	17572	1.40	<b>6</b> 21	1.58
707 8419	Thoppu - Madampe	12 N 12			K a	0#CDCT	158184	067061	228036	1.20	1.19	61.1
709 8421	Tiruwansketiya - Agalawatte	68 Sah		2027	2	7/ 010	04727	12276	112799	1.20	1.19	1.19
710 8421	Tinwanaketiva - Agalawatte	20 11			t,	01040	6885Z	77175	35991	1.12	11.1	111
	Toninala - Kalawewa - Galewela	00 WGI	6.X.7	1452	2	107097	150730	210823	293128	1.40	1.39	1.38
714 8424	Trincomalec - Pulmoddai	40 769	E 7 4	320	6	20679	29781	:2623	60640	1.43	1.42	1.41
715 B423	Tudella Pamuninama Talakan Namaha		CIEX						•			
717 B427	Udawalawe - Taasmetuila	20 West	17 K.m	1380	53	32670	45981	64312	83419	1.40	1 20	1 2.8
4258 316		4AD CC	S k.m	550	53	22710	31233	42687	57997	9° 1	ž	ž
	Themer Duralland	35 Uva	33 k.m	000	91	14448	19871	27158	36899	36.1	2	) ř
		2. Cent	н. К. Н.	460	25	13238	18631	26059	CLCYL	07.1		
	Ciapanc - J'usselidwa	23. Cent	14 k.m	160	22	2604	6480	9064	10901	140	2	101.
•			:	•		· :!	i.				FU. 1	1001
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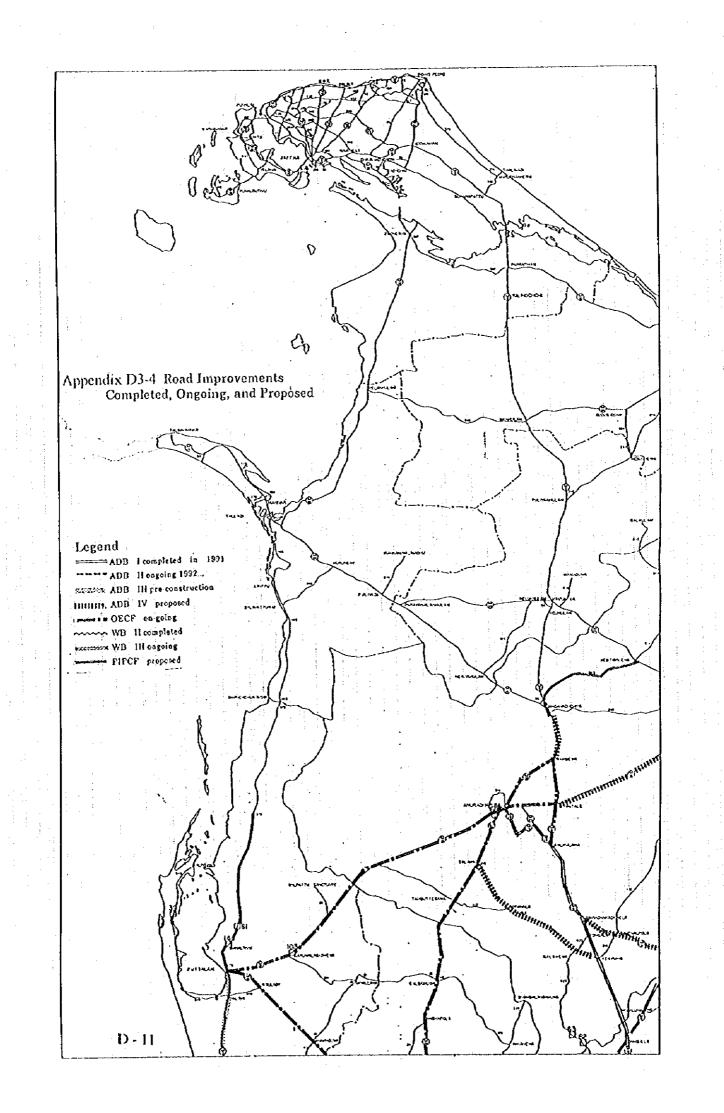
D-2 Estimated Vehicle - Km and Growth Ratio by Section Route B

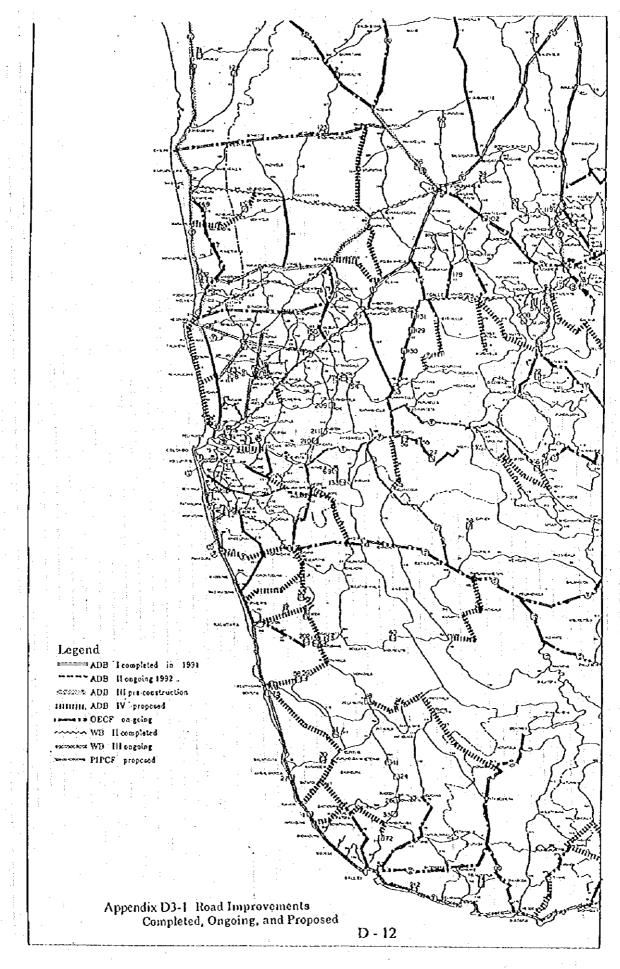
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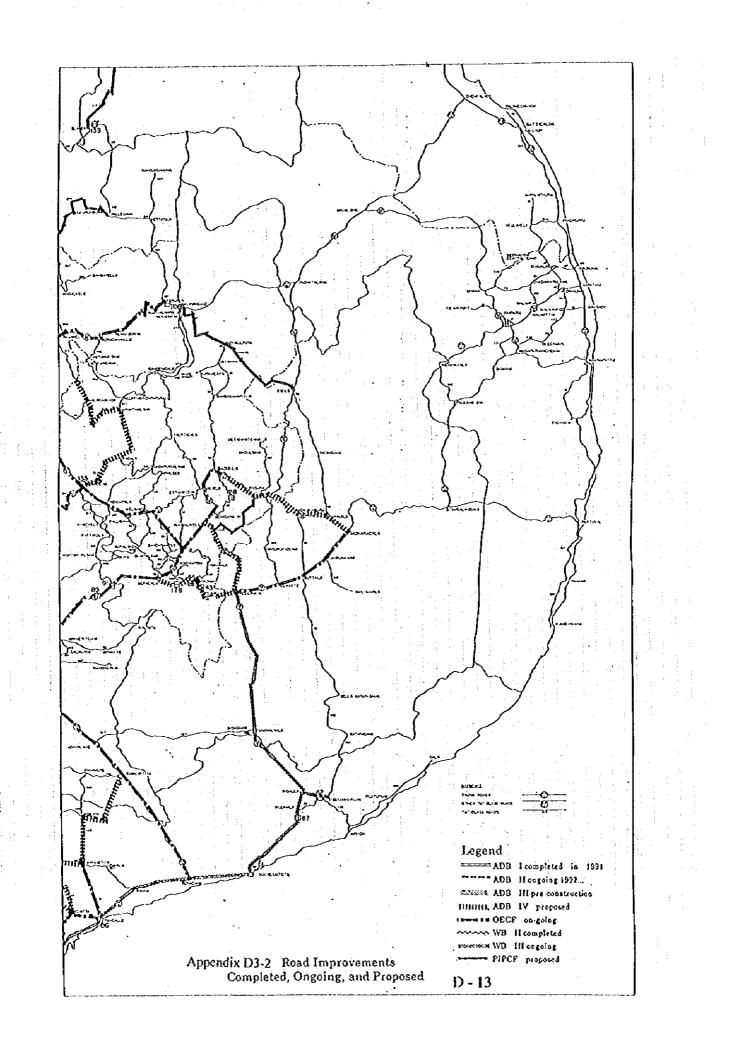
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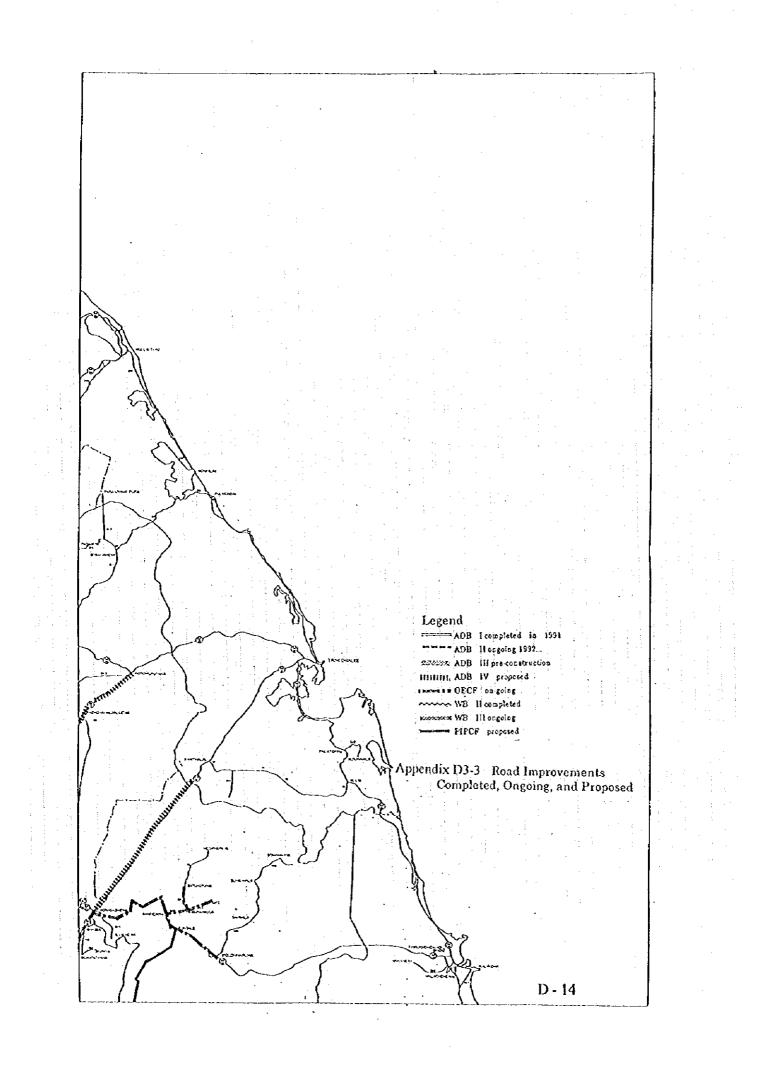
D - 2 Estimated	D-2 Estimated Vehicie - Kin and Growth	d Growth Ratio	Ratio by Section Route B	A Route	â							
ROAD NAVE Unredewate - Ambala		LENGTH OF PROV Kn		ADT vpd In cach yr	S Revise V Veh-kr (*)		Revised R Veh-km V 2000	Revised Veh-km 2005	Revised Vch-km 2010	Growth Ratio 00/95 055	atio 05/00	10/05
Veyangoda - Kaleliya		8 West	ы к.а к.а	1231	- 26 - 26	8797S	124968	101921	247544	1,41	1.40	1.39
V cyangoda - Ruwanwella V cyangoda - Ruwanwella		32 Wet	5,4,9	2005		65244	234719	331334	- 10152 764946	1.40	6071 671	1.58
Veyangoda - Ruwanveila. Veveneda - Provenceila.		32 Vest	16 K.m.	2174		53664 16441	195158 23140	272963	379526	1.40	61	2
Velgame - Diyagama		32 Sab 7 West	25 km	512	9.	17102	24070	53666	46805	1.40	2 2 2	1321
Waipola - Mailawalana Wandurambe - Ethumale - Varitetium	V alt for all more	9 West	8 K	250	8 S	8612 8612	51545	72762 16953	102104	1.41	07'1	<u></u>
Wandurambe - Ethomale - Yakkatuwa	r akkatuwa	36 Sout	10 km 28 km	370 500	16 16	16121	22855 10885	29679	11685	071	) <u>8</u>	1.28
vraticgana - Nanocnuvera - Wariyapola Waticgama - Matalc	-Wariyapola	A) Cent 13 Cent	26 KB 7 F B	50	б i	2124	2989	41814	1//10	1.40	61 1 1	1.28
Weerawila - Tissa - Kataragama. Weerawila - Tissa - Kataragama.	jama. Maria	24 Sout	2 5 3	1140	20	6809 8020	49679	33089 64511	46007	1.40	ត្ន	ŝ
Wellgama - Tollijawita		24 Sout	17 K.m. 5 K.m.	1090 530	5 76	10583	37241	48359	62+25	1.55	<u>] 9</u>	87
venmadi - Nirklees Veliveriva - Kirindiveta		18 Uve	LNOTEX						13630	1.30	ក្ម	1.28
Wennappuws - Kinmetiyana		5 Nus	7 ka 2 ka	1650	• • •	21236	29887	41803	58122	1.40	1.39	1.38
Wilakatupotha - Ganewatiha - Kumbukgete	Numbukgete	22 Nup	11 km	99		242	12777	75247	35012	1.20	1.19	1.19
total .			SUNK >		637	6376665	8417197	11110700	14666125	07-1	61.1	1.19
Ratio in Total				95-65		1.00	1.32					
:									*~ *	1.34	1.32	5

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### Appendix D - 4 Estimated Future Population by District

No.	District	Land Area*	1995	2000	2005	2010
1	Čolombo	656.7	1791.7	2266.3	2558.8	2823.3
2	Gampaha	1597.6	485.7	567.0	751.1	963.6
3	Kalutara	1377.6	230.7	277.6	388.8	517.5
- 4	Kandy	1906.3	193.7	215.4	239.2	265.3
5	Matale	1993.3	52.0	58.1	64.8	72.1
6	Nuwara-Eliya	1720.5	38.4	43.6	50.3	58.0
7	Galle	1635.6	206.1	252.2	298.6	347.8
8	Malara	1282.5	85.7	100.4	115.4	131.5
- 9	Hambaniola	2579.3	60.2	86.3	112.0	138.4
10	Jallna	983.6	332.9	364.4	425.9	491.7
ារ	Kilinochchi	1235.0	9.6	14.5	24.1	33.9
12	Mannar	1985.2	19.9	23.5	31.5	40.1
13	Vavuniya	1966.9	26.0	30.4	40.0	50.2
14	Mullaitivu	2516.9	10.3	12.1	16.1	20.3
15	Batticaloa	2686.3	104.3	113.8	131.9	152.4
16	Amparai	4318.2	70.9	78.9	94.2	111.3
17	Trincomalee	2630.8	118.9	144.0	191.1	242.9
18	Kurunegara	4812.8	55.5	69.5	84.0	99.5
19	Puttalam	3013.4	81.1	103.0	125.3	149.3
- 20	Anuradhapura	7034.3	49.4	50.7	59.9	80.7
- 21	Polonnaruwa	3224.2	43.4	59.7	71.5	75.6
22	6lube8	2802.8	68.7	78.8	90.2	103.1
23	Moneragala	5545.6	9.9	11.1	12.6	14.6
24	Ratnapura	3255.4	77.1	84.5	94.0	106.6
25	Kegalle	1692.8	84.1	104.2	126.8	151.8
	Tolal	64453.6	4306.0	5210.0	6197.9	7241.6

#### Estimated Future Urban Population by District ( x 1000)

Note": Square kilometers excluding large inland water areas SOurce: Study Team

#### Estimated Future Population by District ( x 1000)

No.	Olstrict	Land Area*	1995	2000	2005	2010
1	Colombo	656.7	2069.4	2302.7	2558.8	2823.3
2	Gampaha	1597.6	1571.1	1682.0	1799.1	1915.6
3	Kalutara	1377.6	972.2	1063.3	1161.4	1261.1
4	Kandy	1906.3	1289.7	1319.9	1350.6	1373.5
5	Malale	1993.3	444.2	454.1	464.2	471.7
6	Nuwara Eliya	1720.5	523.9	527.7	531.4	534.2
1 7	Galle	1635.6	991.3	1013.8	1099.7	1154.2
8	Malara	1282.5	814.0	866.9	923.8	979.9
9	Hambaniola	2579.3	542.4	579.4	619.5	659.1
10	Jalina	983.6	886.9	908.7	930.9	950.9
- 11	Kilinochchi	1235.0	113.2	116.0	118.9	121.4
12	Mannar	1985.2	142.1	158.4	176.6	194.4
13	Vavuniya	1966.9	120.0	131.0	142.9	154.3
14	Mullaitivu	2516.9	100.1	109.9	120.6	130.9
15	Batticaloa	2685.3	445.7	464.8	485.0	503.9
16	Amparai	4318.2	516.1	536.6	558.5	578.7
17	Trincomalee	2630.8	329.3	341.3	354.0	365.7
18	Kurunegára	4812.8	1490.0	1545.8	1604.7	1659.0
19	Putlalam	3013.4	632.8	661.4	691.9	720.3
20	Anuradhapura	7034.3	759.8	792.8	827.8	860.7
- 21	Polonnaruwa	3224.2	336.5	350.9	365.3	380.7
- 22	Badulla	2802.8	731.3	723.2	713.3	693.1
23	Moneragala	5545.6	373.3	363.6	352.0	335.4
- 24	Ratnapura	3255.4	979.6	1008.6	1038.5	1062.7
25	Kegalle	1692.8	765.2	777.2	789.6	799.4
	Tolal	64453.6	17940.0	18830.0	19780.0	20690.0

Note': Square kilometers excluding large inland water areas SOurce: Study Team

Appendix - E

### PRELIMINARY INSPECTION RESULTS

### LIST OF CONTENTS

1.	List of Types of Bridges for Preliminary Inspection	E - 1
2	List of Location of Bridges for Preliminary Inspection	E - 3

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Norw         Norw <th< td=""><td></td><td></td></th<>		
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Ways         Ways <th< td=""><td>(Virvate)</td><td></td></th<>	(Virvate)	
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B/Ty         T/L         A/D/C         B/D/C         A/D/C         A/D/D/C         A/D/D/D/C         A/D/D/D/D/C         A/D/D/D/C         A/D/D/D/D/D/D/D/D/D/D/D	-	
Heats         Constraint         Explored         State in the interval of t	Norte	None
HALV         207.KL         200.ML         FXUNC         Xet         1         Viol         Yet         1         Yet         1         Yet         1         Yet	None	None
WACH WIK         WYK         FY OR         U/A         K/A         K/A <thk a<="" th="">         K/A         K/A         K</thk>		
Hot:         Hot: <th< td=""><td>Wedge Stone</td><td>-</td></th<>	Wedge Stone	-
Hach Null         Willing Sign         Willing Microsoft         Constrained Microsoft         Solution Microsoft         Solution Microsoft <thsolution Microsoft         Solution Microsoft<td>Calleron</td><td></td></thsolution 	Calleron	
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Hole         Gent         Yun ynj         Expansion         Liternicine Convention         23         4         3.24         3.24         3.24         Non-weite Store         10           Non-yn         YNK         YNN         YNK         YNN         YNN <td>k.v</td> <td></td>	k.v	
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Mark         WIL         Divided         Mark         <	weater stores	
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	ce-decking	
Concrete Arch Bridge Res//BUC Buckle Plate over Rollod Stell Jose Regioner Reserved	cepaut	
Steel Aren Fording XS/COK Conviging Vision Steel Joist U.S.S. V.C.K. Conviging Vision Steel Joist U.S.S.K.C.K. Will Stee	Widening of Bridge	
Barley Bridge RSJ/RCS Reuforced Concrete Slab over Rolled Steel Joist	Aain Beam	
AV Courseway Horder DV:PT Turber over Rolled Steel Steel		

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E - 2

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PSCPOS Pre-treased Postimisioned Constrate board ST, TRVT Steel Through Trues

			Decident	Harry	
	No. Koad	Uisma	Developmen Bodie	Vahaweli Gama	
	110/2K [Colombo - Kandy	Langy			
	91/2K Colombo - Kandy	Kagnile	Mawanela Hindre	Net ( ) V	
AA002 AA002	92/1X Colombo - Galle - Hambantota - Wellewava	Calle	Hukkaduwa Bridge	Molapu Ova	
A002	- e .	and Galler 1	Modara Bridge	Madampugama Udnga	
20074	62/2K  Colombo - Calle - Hambantota - Wellewaya	Galle	Hentota Bridge C	Bentota Kiver	
	5	Calle	Bentota Bridge 1	Pentous River	
A A M	10071X (Colombo - Galle - Hambantota - Wellewava	Hambantota	•		
A AOOT		Hambantota	Alihokuwa Bndge	Kumu Eta	
1.V.V	132/14/10/pumby - Calle - Mambantata - Wellewaya	Calle	Cervivanana Bridec (Ahungama)	Govivenana Ela	
A MAT	-1711X [Pelivadenda - Puttalam	- Chilaw	Nainamadama Bridge	Maha Ovn	
1 AOM 1	9677k  Pelnndonda - Puttalam	Chilaw		Battu Oya	
	"revok" [Colombo - Ramanura - Wellawaya - Battikaloa	Bandarawela	Divaluma Bridge	Kuda Ova	
TUVE	19677X IColombo - Ratnaruta - Wellawava - Batticaloa	Bandarawela	Le Mastota Bonda Bridge	Le Mastota Bonda Ela	
1004	200/1 K (Colombo - Ratnanura - Wellawava - Batticaloa	Bandarawela	Kuda Ova Bridge	Kuda Ova	
		Rathaputa	Meda Bridge	Ran Agge Ara Ela	
TWAA	160/06 Colombo - Ratnanura - Wellawaya - Batticaloa	Bandarawela	Silipe Bridge	-	
T NOV V		Randarawela	Nikapotha Bridge	Nikapotha Ela	
NOVA A		Kandv	Gampota Bridge	Mahaweli Ganga	
A A007	72/5K Averawalla - Hatton - Nuwara Eliva	NUWATA ELIVA	Kuda Ova Bridge	Kuda Ova	
10000	70NV Amerawalla - Matron - Manara Fliva	Nuwara Eliva	Shannon Bridge		
	Crite L'ANAL - International - Control - Contr	vbre	Katueasutota Bridge	Mahaweli Ganca	
	74/11/14/www.tetas - Kumenala - Putalam	Kunnetala	Daduru Oya Briddie	Daduru Ova	
		Kurunevala	Maspotha Bridge	Maguru Ova	
		Kuranecala -	Kosupothu Bridge	Kospothu Ova	
A AOL	247K   Mandankadawela - Habarana - Tirikkondiadi	Anuradhanun	Yan Ova Bindge	Yan Oya	
210AA	16/1K Puttalam - Trincomalee	Chilaw	-	Tabbowa Wewa	
AA017	2/2/K Galle - Denivava - Madampe	Galle	Rambagala Bridge	Rambagala Ela	
010VV	NCK Poigahawels - Kegalie	Kunnegala	Karandara Bridge	Maha Ova	
AA021	36/3K [Kegalle - Bulathkohupitiva - Karawanella	Kezalle	Ruyaha Oya Bridge	Ritigaha Ova	
AA026		Kandy	Hasalaka Bridge	Nikaliyadi Oya	
AA073	S/3K   Ja Eia - Ekala - Campaha - YaWala	Gempeha		Usseyadana Ela	
ABOCK		Matale	Kumbiyangoda Bridge	Kumbiyangoda Ela	
AB077	1/2/M [Old Galle Road Panadura	Kalutara	Susantha Mawatha Bridge	Garbage	
A ROTO	12/2K Parvala - Chrulla	Crampaha		Tarigodiou Channel	
B014	8/1 K   Amhalanyoda - Elpitova - Pitigala	Calle	•	Aluwarha Cya	
BOAS	19/1K/Bancadeniva - Andigama - Anamaduwa	Chilaw		Battulu Oya	
R070	23/2/Mi Chulaw - Wanyapola	Kurmegala	Thomagala Rudge	Kalamunu Ova	
ROOF	X/10K   Dehiowita - Deraniyatola - Norti	Kegalle	Rukanal Ova Bridge	Rukanal Ova	
Bog		Kegalle	Maha Ova Bridge	Maha Oya Ela	
BO93	122K i Dehiowita - Deraniyagola - Noon	Kegalle	Pahala Deramwagala Bridge		
P007	1 S/4K Demodara - Spring Valley	Badulla	Spring Valley Bridge	Spring Valley	
1112	7/1K  Ekala - Kotadentvawa	Gampaha	Kotucoda Bridge	Attanagalu Ova	
8.14	ľ	Calle	Goluwamulla Moda Bridge	Calletta Ela	
ALLE		- Kandy -	Damunuwa Bridge	Pamunuwa Ela	
P127	2/7X  Calicamuwa - Ruwanwella	. Chitaw	Balaptawa Bridge	Balaptawa Ela	
R177		Kegalie		Gurugoda Ova	
R		Keralie		Bissowela Ela	
814S	с і -	Gampaha	Divamanda Bridge	Divamanda Ela	-
Black	K3K Hanwella Puenda - Weka	Gampaha	Kapugoda Bridge	Delkanda Ova	
e e	- Mary University Princip - Webs -	Gamnaha	Nikawala Bridge	Nikawala Ela	

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E-3

Name of Name of Remark	Bridge K	Ka I	Muhunumalwatta Bridge Muhunumaliwatta Ela		Permuatio Antoge Pelowata Ova		4	6		- Kalu Ganga(Eerivangala)	. Keenvarkali) Ova	Ganecoda Brodre Anthathola Ela		-	Blinusamale Bridge Elingamale Fla		Attantagila Ova	Idaliaurada Bridee Attanagalu Oya	Ketawala Amuna Channel		Katukenda Causeway Katukenda Ela	- Thelpa Ela	Menikgodalle Ela	-	A.		- Canal	Haldandu Ela	Sudubolikiuwa Bridye Olanda Ela	Deela Bridge Way Ganga	<ul> <li>Kıthulkahalitabitba Ela</li> </ul>	Haven		Naturala UNA Liftuye A Naturala UNA Manteriyua Birdae Newmino Lacoon	6		Gin Ova	Madigira Ela	. Incation Channal	. Invation Channel	Divana Ridge	Rukmalagada Brudge   Mamanadela Eia		Unia Bridge Mamandela Ova	Unia Rudye Warnandela Ovo Halwatte Ela
CE/Regronal District				1	_		Colombo Cal V	-	. 	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	Chilaw	Galle Galle Ca		-	Nuruncraia Ha		Gammaha		Campaha	Colombo	_	Kalutara	Kulutara	-		Chilaw I	Chilaw	Chilaw	-		Kalutara			Anuradhapura Nai			Chilaw	Campaha	Gampahe	Сапранатот Сапранатот		Calle Ruk	_		Calle Calle
E Name of Rond	12/3K Morana - Ancuruwatola - Alutheama	++/3K  Horana - Anguruwatota - Alutheama	43/4K Horana - Angunawatota - Aluthgama	23/2K Horana - Anguruwatota - Alutheama	16/7K Horawela - Pelewatta - Miyaia		11/44 A AGUNTOWA - CRATTONA SJAN   Kaltoorala - Eablucama	SZM [Katuryala - Labuvama	S/5K fLarandurone - Rambukkana	10/3K   Katokurunda - Neboda	1/5M Keenankalli - Andagama	9/4K [Lahuduwa - Wanduramba - Sandarawela	SASK [Lady Massalum Drive	25/7K  Mallawapitrua - Rambodavaila - Keppengoil	7/3 K Mallawapittya - Kambodagalia - Keppetuoli 2715 - Kehini	nt Navanwas - carney 15 fr Marnush Ridubeddewa	10/2K (Minuwancoda - Campaba - Minimutta	10.9K [Minuwangoda - Gampaha - Minxwatta	10/5K Minuwangoda - Gampaha - Miniswatta	3/5K Moratuwa - Pilwandala	15/6K Muttetugala - Hiripitiya	25/3K Nagoda - Kalawellawa - Bellapitiya	17/1K   Navoda - Kalawellawa - Bellapitiva	14/5K   Nagoda - Kalaweliawa - Bellapativa	SADATA NAULA - FLANDERA - NAURANEA	2005. Puttalam - Manchchikade	1/1K Puttalam • Manchchikade	6/2/ (Thopy - Madampe	24/2K Thoppu - Madampe	N/1K Tiruwapaketiya - Agalawatta	66.2K Tiruwanaketiva - Agalawaita	29/3K Tonigala - Kalawewa - Galewela	CK   Tonigata - Kalawewa - Galewela	44/3K   1.00192414 - Kalawewa - Calevela 201151 T. 146115 - Doministrati - Talabara - Nationalis	2366 (Ulanana - Puscellawa	3/1K Gin Ova - Piolawatta - Dankotuwa	2/1K   Cnn Ova - Bolawatta - Dankotuwa	45K Vevaneda - Kaleliva	1-2K Vernngoda - Ruwanwella	1-13K Vevanenda - Ruwanwella	1905k Wanduramha - Etumale - Yakkatuwa	6/6K Wanduramba - Etumale - Yakkatuwa	3/1 K Warduramba . Frumale . Valstanuwa		15.5K Wanduramba - Etumale - Yakutuwa
ROUTE BRIDGE			:	÷			RIXX - 10	:			R227 1/				BC041 7											B170			Γ		B421 66	<u>.</u>		ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL											
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Appendix - F

# DATA OF TOPOGRAPHIC SURVEY

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1.	Reference to MSL Datum	F- 1
		<b>1</b>
2.	Bench Mark Location Sketch	F - 2

### REFERENCES TO MSL DATUM

<u>Bridge Serlal</u> <u>No</u> .	Old BM Reference, Elevation and approx. distance to Site
85	- SD BM No.45 of Primary Level Line No.XVI - Elv. 216.851m Distance 150m
77	- SD BM Nos.6 & 7 of Primary Level Line No.XCV - Elvs. 68.899m & 69.038m respectively within the site area.
53	- Not on MSL Datum.
33	- SD BM No.19 of Secondary Level line No.CXXXIII - Elv. 3.338m. Distance 1.6 Km.
<b>59</b>	- BM No.44 established for the proposed Bandaragama - Matara Highway Project. Elv.1.118m. (Within site area).
20	- Not on MSL Datum.
70	- SD BM No.4 of Minor Level line No.9/1966 Elv .5.322m. Distance 2.5 Km.
7	- Negombo Town Survey BM (SD) near New Rest House. Elv. 2.104m .Distance 2 Km.
211	- SD BM No. 10 of Secondary Level Line No.CXXVI Elv. 24.873m. Distance 4 Km.
212	- SD BM No.3 (Secondary Traverse No.1/94 Stn.13) Elv. 2.585m. Distance 4 Km.

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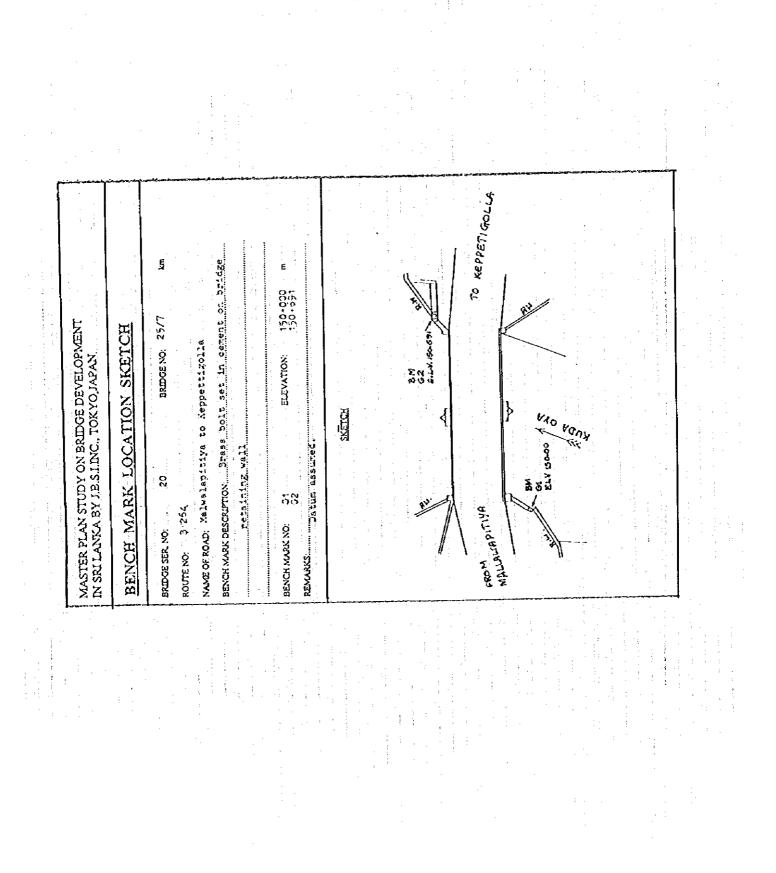
TO KANDY BENCH MARK DESCRIPTION. 378.85% 30.1 Let in cenent on bridge Ş E 91/2 ELEVATION: 202-953 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN. BENCH MARK LOCATION SKETCH BRIDGE NO: BM.G2 ELV. 202.953 NAME OF ROAD: Colombo to Kandy SKETCH CPLONOO Recalizing Wall. ROUTE NO: AA OOT BENCH MARK NO: 02 BRIDGE SER, NO: 85 605th TO KANDY what oth BENCH MARK DESCRIPTION 5 E 203.185 BRIDGE NO: 91/2 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT **BENCH MARK LOCATION SKETCH** IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN. **ELEVATION:** NAME OF ROAD: Colombo to Kandy SNELCE 0 M 61 ELV 203.185 REMARKS ...... De cum. K. S. L. uRebaindnaufaili frey Colongo AA 001 5 BRIDGE SER NO: 85 BENCH MARK NO. ROUTE NO:

TO REGALE 111 Jac ELV 68.968 1 8M 62 ø, Ę ε 400101V 68-963 01 авоя BRIDGE NO: 3/2 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT. BENCH MARK LOCATION SKETCH IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN. ELEVATION: NAME OF ROAD: Polgehawela to Kegalle SKETCH REMARKS. Detur N.S.L. ROUTE NO: C. A. 019 ..... BENCH MARK NO: 3 2 BRIDGE SER, NO: 77 BANK YAYA POLGAHA -FROM TO KEGALLE Ę ε 601-69 212 3/2 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT BENCH MARK LOCATION SKETCH IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN. BRIDGE NO: ELEVATION NAME OF ROAD: Polgehavela to Kegalle 84 GI 97-10-SKETCH Ę L REMARKS .... De tum ... X. S. L. ₹Ū, ROAD BENCH MARK NO: 01 BRIDGE SER, NO: 77 ROUTENO: A 019 POLGAMALELA concrete. . ମୁହନ୍ତୁ

TO KARAMANELLA BENCH MARK DESCRIPTION. Survey Dept. BM. Brass bolt set in carent NAME OF ROAD: Kerslie to Karawanells vis Bulathkohipitiya 5 E 28-156 BREDCE NO: 36/3 å MASTER PLAN STUDY ON BRIDGE DEVELOPMENT BENCH MARK LOCATION SKETCH S.C.S ġ 508M 64 28.156 IN SRI LANKA BY J.B.S.I.INC., TOKYO JAPAN. ELEVATION SKETCH RENURKS.......Ch..an..assured Datum. on hridge reseining wall. BRIDGE SER NO: 53 ROUTE NO: AA. 021. . : FROM KEGALLE BENCH MARK NO: AHADITIA AYO KREALANELLA NAME OF ROAD: Kegalle to Karawanella via Bulathkonupitiya. g Ē ٩ 410 SILI CUHU 36.73 27-943 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT BENCH MARK LOCATION SKETCH BRIDGE NO: IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN, FLEVATIONS skerch REMARKS...... ASSURED Datum 71 BM G 1 ELV 27.948 Tetaining wall ROUTENO: AA 024 ---5 BREDGE SER NO: 53 BENCH MARK NO. ģ. ũ. FROM KEGAUS

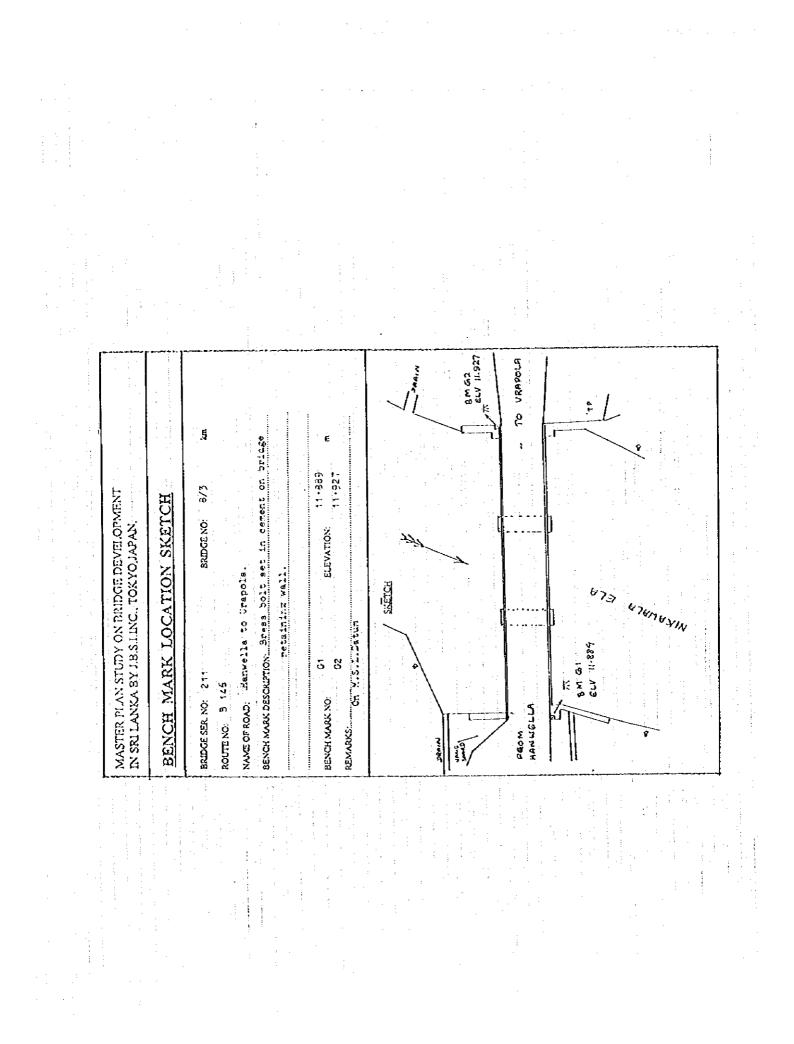
MASTER PLAN STUDY ON RRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC., TOKYO,JAPAN.	BENCH MARK LOCATION SKETCH	RELIDEE RO. 13 BRIDGE NO. 12/3 KA ROUTE NO. 3 157 BRIDGE NO. 12/3 KA ROUTE NO. 3 157 NAME OF ROAD: HOT ALL THERE AL A ANGUTUWA EDTA. NAME OF ROAD: HOT ALL THE ANGUTUWA EDTA. BENCH MANK DESCRIPTION BILLS LEEVATION: 9-185 M REVAINS. OF M.S. L. DALLT REVAINS. OF M.S. C. R.S.	
MASTER PLAN STUDY ON PRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC, TOKYO,JAPAN.	BENCH MARK LOCATION SKETCH	RELIDCE SER NO: 33 BUEDGE NO: 1275- LA ROUTENO. 3 157 NUME OF ROLO. HOFMAN LO ALULHGARA VIE ANGUTHWAICEA NUME OF ROLO. HOFMAN LO ALULHGARA VIE ANGUTHWAICEA RENAMEN OF DISTING WALL RENAMEN OF DISTING WALL RENAMEN OF DISTING WALL RENAMEN OF DISTING OF ALL RENAMEN PORTHA FROM HORANA FROM HORANA	

ACUTISAMA GANGA E BENCH MARN DESCRUPTION. BITESS DOLT SEC 11 CENERS ON DIJCE £ JELPENNA NAME OF ROAD . "GOTANA TO ALUTINGAMA VIA ANGUTUWATOTA. ę 43/4 5-2.58 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT BENCH MARK LOCATION SKETCH BM G1 EU 3.238 Æ BRIDGE NO: IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN. ELEVATION ł÷ SKETCH retaining wall. REMARKS. OL. M.S.L. CALUE WASER HOLE 5 BRIDGESER NO: 59 ROUTENO: 3 157 FROM HORANA BENCH MARK NO: TO ALUTHGRAMA Ę BENCH MARN DESCRIPTION ... BIASS DOLT SET IN COMPAN ON DRIGGE ε NAME OF ROAD: Horman to Aluth Jama via Anguruvatota 43/4 3+374 MASTER PLAN STUDY-ON BRIDGEDEVEL OPMENT BENCH MARK LOCATION SKETCH BRIDGE NO: IN SNI LANKA BY J.B.S.J.INC., TOKYO, JAPAN. ELEVATIONS GRACE CRACE SKETCH -13 Lenne retains 2 walk. 1 BM 62 ELV 3-374 : |< ROUTENO: 3 157 ... BRIDGE SER NO: 59 BENCH MARK NO: 02 FROM HORANA



PUPOWAYLIN OF 5 BENCH MARK DESCRIPTION. STRARS DOLL SEC. In CERENT OR DESCRIPTION. Ę BREDGE NO: 3/6 ELEVATION: 3.661 Section 2 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC., TOKYO,JAPAN BENCH MARK LOCATION SKETCH NAME OF ROAD: ... Norstuwa to Piliyandala. BM 62 SNETCH "retaindrates wall BOLGODA LAICE BOLGOJA LAKE REMARKS ..... MS.L. Gabun. FROM MORATUNA 3 33 ROUTENO: 3 295 BENCH MARK NO: ERIDGE SER NO: TO PLUYMUTH 5 BENCH MARK DESCRIPTION Brass bolt set in cerent on bridge LAKE Е BOLGODA LAICE Add Park ELEVATION: 3.771 BOLGODA MASTER PLAN STUDY ON BRIDGE DEVELOPMENT BRIDGE NO: 3/6 BENCH MARK LOCATION SKETCH IN SRI LANKA BY J.B. S.I.INC., TOKYO, JAPAN NAME OF ROAD: Nora tuwa to Piliyandala. **NETO** 814.61 Ch K.S.L. Datur. FROM MORATUWA. BENCH MARK NO. 31 1 27-04 2 ROUTENO: B 295 BRIDGE SER NO: SVILING REMARKS ....

MASTER PLAN STUDY ON BRIDGE DEVELOPN IN SRI LANKA BY J.B.S.I.D.C., TOKYO, JAPAN BRIDGE SER NO: 7 BRIDGE NO: BRIDGE SER NO: 3 425 NAME OF ROAD: 24621a to Negombo. BENCH MARK NO: 3 425 NAME OF ROAD: 24621a to Negombo. BENCH MARK NO: C1 BENCH MARK N	MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN, IN SRI LANKA BY J.B.S.I.INC., TOKYO, JAPAN,	BENCH MARK LOCATION SKETCH BENCH MARK LOCATION SKETCH	BRIDGE SER NO: 7 BRIDGE NO: 20/4 km ROUTE NO: 3 425 ROUTE NO: 3 425 NAME OF ROAD: Tudella to Negombo. BENCH MARK DESCUPTION. BEase boly set in cerent on bridge BENCH MARK DESCUPTION. Brass boly set in cerent on bridge BENCH MARK DESCUPTION. Brass boly set in cerent on bridge	ELEVATION: 2 • 528 m RENCH MARK NO: C 2 ELEVATION: 2 • 543 m RENARKS: 2 M.S.L. CETTON: 2 • 543 m	
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TO WELLAWAYA BENCH MARK DESCRIPTION ... Rebar, with a rounded top, ant in concrete. 5 ٤ 3 1 1 2 0 7 7 7 0-51 BM 62 138/1 2.853 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.I.INC., TOKYO,JAPAN BENCH MARK LOCATION SKETCH T CURDEN BREDGE NO: ELEVATION NAME OF ROAD: 0 Colombo towellawaya. SKETCH REMARKS. On K. S. L. Jatun. 8 BRIDGE SER, NO: 212 ROUTE NO: AA 002 BENCH MARK NO: FROM COLOMBO 83118 勜 TO VELLAUAYA BENCH MARK DESCRIPTION. Rebar with a rounded top set in concrete. RIVER 5 E ȓ 2-643 BRIDGE NO: 138/1 MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN SRI LANKA BY J.B.S.LINC., TOKYO,JAPAN. BENCH MARK LOCATION SKETCH ELEVATION NAME OF ROAD: Colombo to Vellavaya SNETCH ii 10-10-Cr. Y.S.L. Satua A THE ADDRESS OF A 1--5 Į, 5 COLO M80 BRIDGE SER NO: 212 ROUTENO: AA 002 BENCH MARK NO: FROM REMARKS ....

Appendix - G

# DATA OF HYDROLOGICAL ANALYSIS

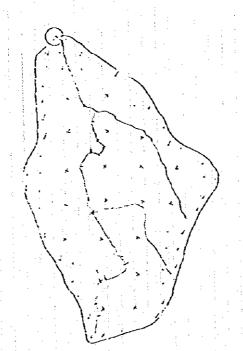
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2.	Calculation Sample, SER No. 20	G - 10

<u>SER NO. 85</u>

Scale = 1:250,000

2822 mm<sup>2</sup>

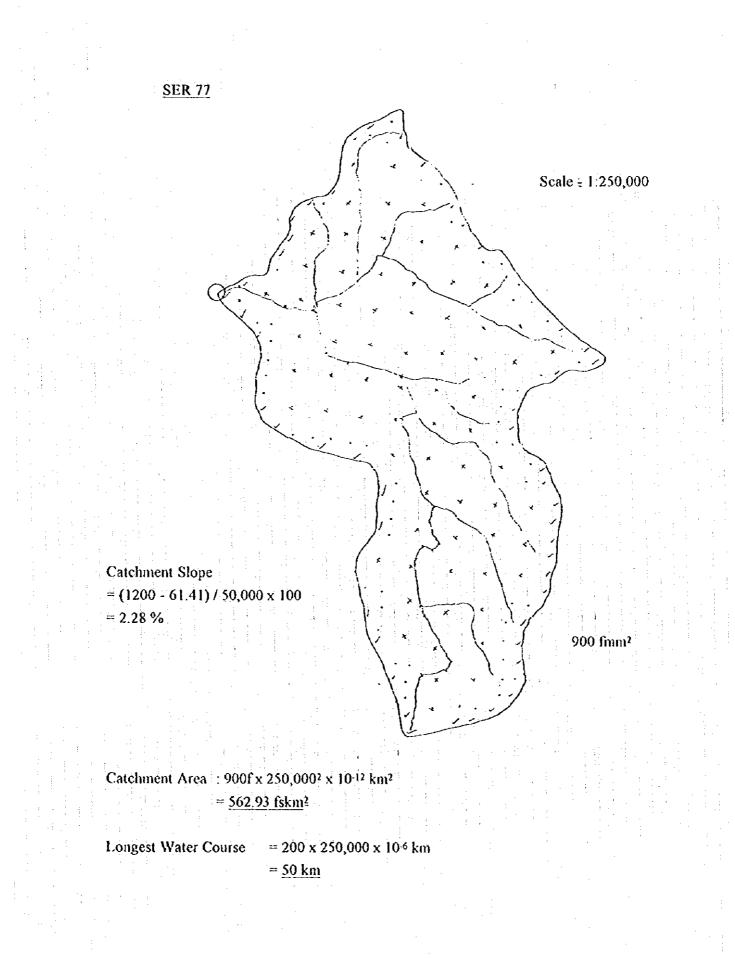


Catchment Area =  $2822 \times 250,000^2 \times 10^{-12} \text{ km}^2$ =  $\underline{176.375 \text{ km}^2}$ 

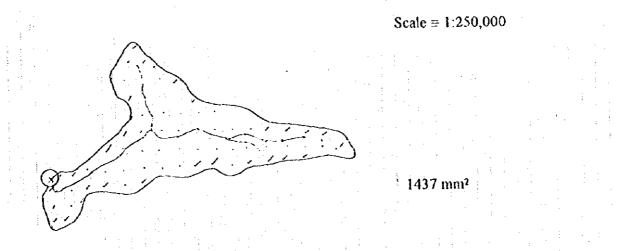
Longest Water Course =  $100 \times 250,000 \times 10^{-6} \text{ km}$ = 25 km

Catchment Slope = (1200 - 190.6) / 25,000 x 100 = 4.04 %

6 - 1



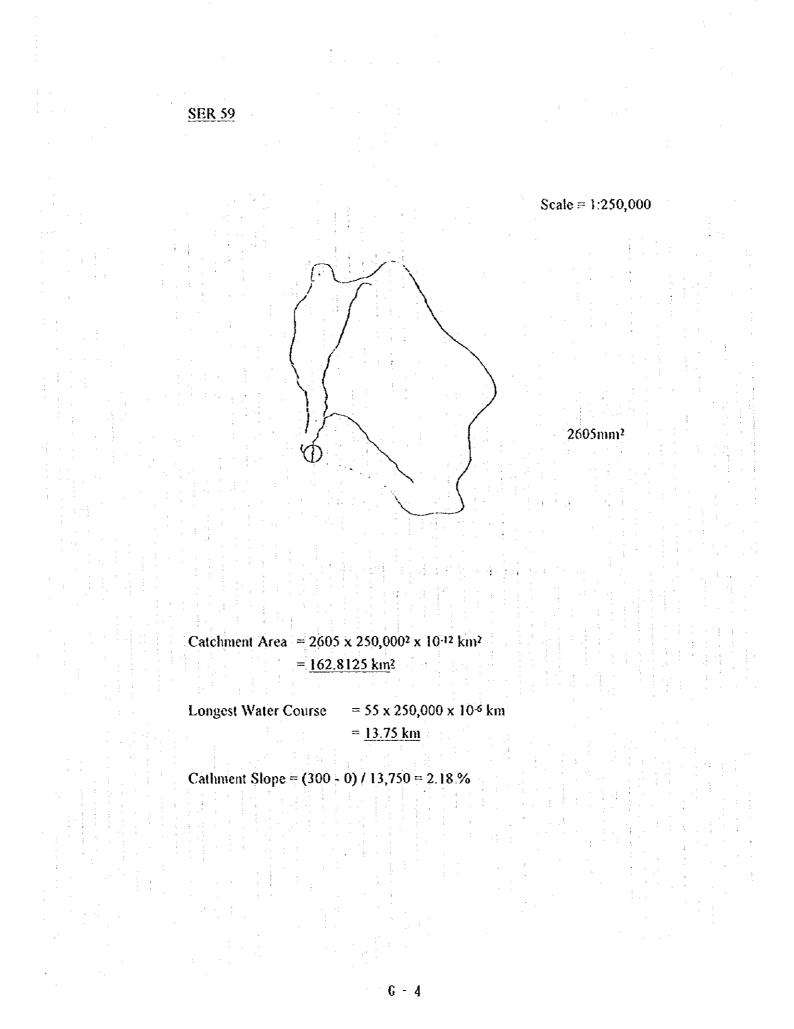
<u>SER 53</u>

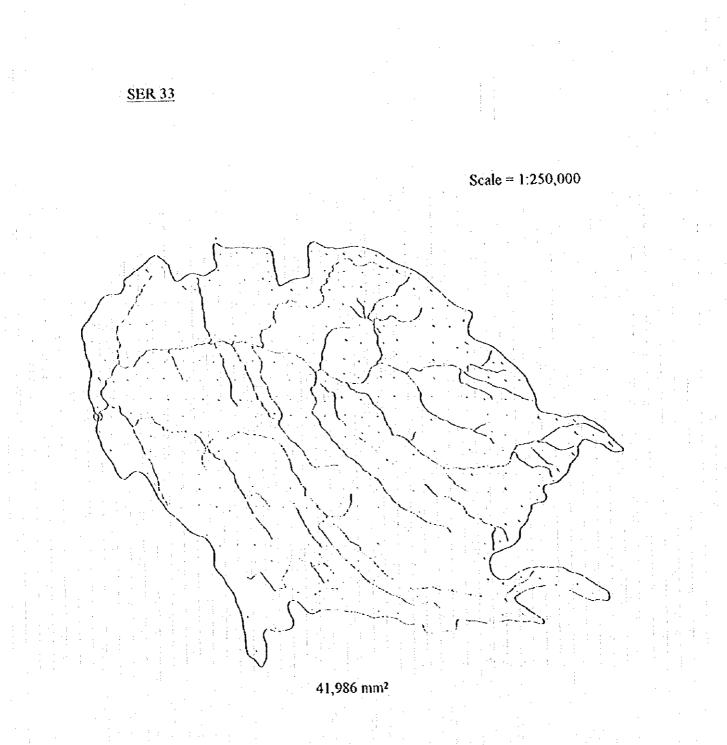


Catchment Area =  $1437 \times 250,000^2 \times 10^{-12} \text{ km}^2$ =  $89.8125 \text{ km}^2$ 

Longest Water Course = 91 x 250,000 x 10-6 km = 22.75 km

Catchment Slope = (900-75) / 22,750 x 100 = 3.63 %





Catchment Area = 41,986 x 250,000<sup>2</sup> x 10<sup>-12</sup> km<sup>2</sup> = 2624.125 km<sup>2</sup>

Longest Water Course = 97.5 km

Catchment Slope =  $(1300-8.00) / 97,500 \times 100$ = 1.33% <u>SER 20</u>

Scale = 1:250,000

461 mm²



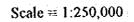
### Catchment Area = $461 \times 250,000^2 / 10^{12} \text{ km}^2$ = $28.8125 \text{ km}^2$

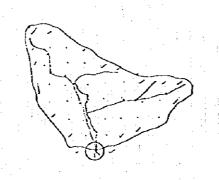
Longest Water Course = 7.5 km

Catchment Slope =  $(700 - 225) / 7,500 \times 100$ 

= 6.33 %

<u>SER 70</u>







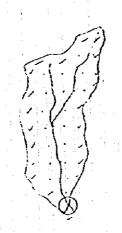
Catchment Area =  $865 \times 250,000^2 \times 10^{-12} \text{ km}^2$ =  $54.0625 \text{ km}^2$ 

Longest Water Course =  $41 \times 250,000 \times 10^{-6} \text{ km}$ = 10.25 km

Catchment Slope = (50 - 0) / 10,250 = 0.49 %

SER 211

Scale = 1:250,000



734 mm<sup>2</sup>

Catchmen Area =  $734 \times 250,000^2 \times 10^{-12} \text{ km}^2$ = <u>45.875 km</u><sup>2</sup>

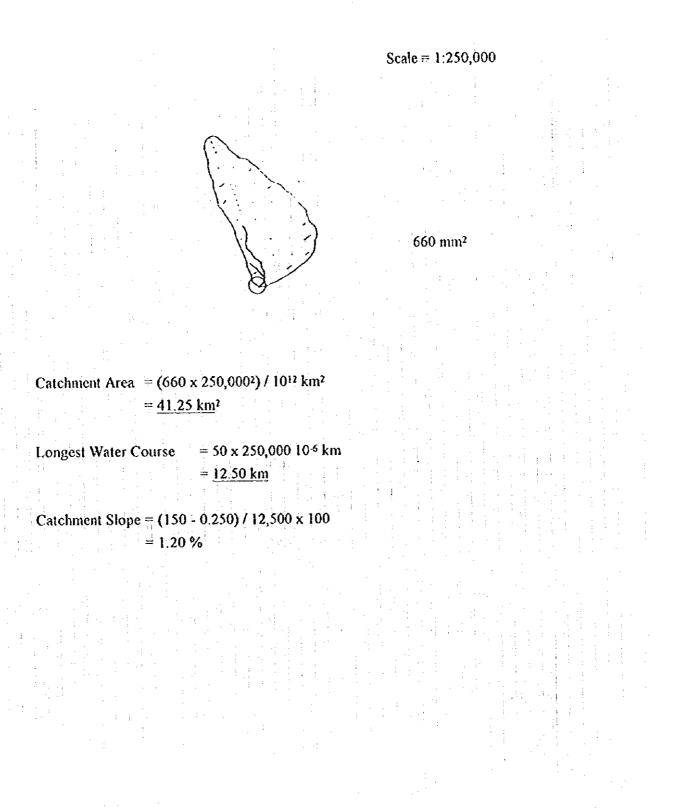
Longest Water Course = 55 x 250,000 x 10<sup>-6</sup> km

= <u>13fskm</u>

Catchment Slope = (140 - 7.50) / 13,750

= 0.96 %

<u>SER 212</u>



	Reference	Calculation	Out put
	1	Waterway Calculation for Bridge	
		SER No. Route No. Bridge No 20 B264 25/7 km	
	Survey of map	DataA =Catchment AreaA =Longest water coursesL =Catchment slope $s =$ 6.33%	
•		AssumptionsReturned PeriodSlope of streami = $0.2$ %Design Discharge : Q	
		Empirical formula method	
3 - 13 - 13	Essential of Bridge	The flood discharge is given by	
	Engineering cl: 2.5.2	$Q = C A^{23}$ where; $Q = Max$ flood discharge in m3/sec	
		<ul> <li>A = Catchment Area in km2</li> <li>C = Constant depending on the nature of catchment location.</li> </ul>	
		In this case, $C = \begin{bmatrix} limited area near hills \\ 10.0 \end{bmatrix}$	
		$Ql = 94.0 \text{ m}^3/\text{sec}$	Q1= 94.0
		Rational formula method	m <sup>3</sup> /sec
	Irrig. Head works	Time of concentrating, "Te" is given by;	
	cl: 4.2.6	Tc = $L/60V + 15$ min. where; $L =$ tongest water course in feet V = velocity in feet/see corresponds to stream gradient.	
	Irrig. Head works T. 4.2.6	In this case; L = 7.5  km V = 5.0  fcet/sec	
-		Tc = 22.62 min ic; Duration of Storm " D " = " Tc"	
		Intensity of Rainfall " I " is given by;	
	Irrig. Head works cl: 4.1.2	I = X D <sup>-Y</sup> where: X,Y are constant in relation to the flood return period and zone in which the site located. I = Intensity of rainfall in In/hr	
	lrrig. Head works T. 4.1.2	Located in zone $3$ For Return period = 50 yrs. X = 167.77 $Y = 0.844$	

Reference

Calculation

#### 0ut∘put

Reference	Calculation	
ci: 5.2		
UL J.L	$I = 12.06 \ln/hr$	
	The value of Dunoff is given by	
	The value of Runoff is given by	
Irrig. Head	Q = CIA	
works	where; $C = Runoff coefficient which is depending on the$	
cl: 4.2.2	catchment slope. I = Rainfall Intensity in In/hr	
	A = Catchment Area in Acres	
· · ·		
Irrig. Head	In this case;	
works	s = 6.33 % therefore, C = 0.5	
T. 4.2.4		
	$Q2 = 42945.5 \ R^3/scc = 1216.0 \ m^3/scc$	Q2=
		1216.0 m <sup>3</sup> /sec
	Design Discharge : Qd	MI 7500
	Q1 ( $m^3$ /sec) Q2 ( $m^3$ /sec) Qd ( $m^3$ /sec)	
	Empirical Method Rational Method Design Discharge	
	Q1 x 1.5	
	94.0 1216.0 141.0	Qd=
		m <sup>3</sup> /scc
	Area - Velocity Method	
Survey map	Elevation of road surface $ELr = 150.48$ m	
of Study	Depth of road surface to solit of the beam $DI = 0.52$ m Free board $Fr = -1.74$ m	
	Free board Elevation of river bed $Fr = -1.74 \text{ m}$ EL rb = 146.5 m	
	Assumed water level ELwl = 151.70 m	ELwl=
	High flood level Record HFL = 152.88 m	151.7 m
	(150.48+2.4)	
	River cross section at centre of the Bridge (Ignored pier thickness)	
	Width of the river Wr = 13.42 m	
	Width of river bed $Wb = 13.42 \text{ m}$	
	Height of slope Height of vertical $hs = \frac{0.0}{hv} = \frac{5.2}{m}$	
	Height of vertical $hv = [ 5.2]m$	
	Area $A = 69.784 \text{ m}^2$	
	Wetted Perimeter $P = 23.82$ 142.0	
	And also; Velocity of flow is given by;	
Essential of Bridge	And also, velocity of now is given by,	
Engineering	$v = 1/n * R^{23} * S^{1/2}$	
cl: 2.5.4	where: $v = velocity of flow in n/sec$	
	n = coefficient of roughness which can be taken from Table 2.2	
	Table 2.3 $s = slope of stream$	
	R = mean hydraulic radius, (A/P) in metre	
Essential	In this case;	
of Bridge	n = 0.045 s = 0.2%	and the second second
Benningering	s = 0.2%	e la substantia la companya de la companya de la companya de la companya de la companya de la companya de la co
Engineering T. 2.3		

Reference	Calculation	Out put
	$Q3 = A * v =$ 142.0 m <sup>3</sup> /sec $\ge Qd =$ 141.0 m <sup>3</sup> /sec	2.03 m/scc Q3= 142.0 m <sup>3</sup> /scc
	Rehabilitation PlanElevation of road surface $ELr = 152.00 \text{ m}$ Depth of road surface to sofit of the beam $D1 = 0.60 \text{ m}$ Free board $Fr = 0.60 \text{ m}$ Elevation of river bed $EL rb = 146.5 \text{ m}$ Assumed water level $ELwl = 150.80 \text{ m}$ High flood levelRecordH50.48+2.4)	ELw1= 150.8 m
	River cross section at centre of the Bridge (Ignored pier thickness)Width of the river $Wr = 17.00 \text{ m}$ Width of river bed $Wb = 17.00 \text{ m}$ Height of slope $hs = 0.0 \text{ m}$ Height of vertical $hv = 4.3 \text{ m}$	
Essential of Bridge Engineering cl: 2.5.4	Wetted Perimeter $P = 25.60$ And also; Velocity of flow is given by; $v = 1/n * R^{2/3} * S^{1/2}$ where; $v =$ velocity of flow in m/sec n = coefficient of roughness which can be taken from Table 2.3 s = slope of stream	
Essential of Bridge Engineering T. 2.3	R = mean hydraulic radius, (A/P) in metre In this case; $n = \boxed{0.045}$ s = 0.2 % v = 2.00  m/sec $Q3 = A * v = 146.2 \text{ m}^3/\text{sec} \ge Qd = 141.0 \text{ m}^3/\text{sec}$	v= 2.00 m/sec

Appendix - H

### DATA OF GEOLOGICAL SURVEY

### LIST OF CONTENTS

Logs of Boreholes for the 8 Bridges 1.

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